

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|---------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #02 | FTL Plate 21 | A1: NFC | - | 0.062 | 0.0626 | 0.557 | 100.1 |
| Rxn #02 | FTL Plate 21 | B1 | 50 | 0.475 | 0.0626 | 0.557 | 16.6 |
| Rxn #02 | FTL Plate 21 | C1 | 50 | 0.506 | 0.0626 | 0.557 | 10.3 |
| Rxn #02 | FTL Plate 21 | D1 | 50 | 0.476 | 0.0626 | 0.557 | 16.4 |
| Rxn #02 | FTL Plate 21 | E1 | 50 | 0.493 | 0.0626 | 0.557 | 12.9 |
| Rxn #02 | FTL Plate 21 | F1 | 50 | 0.520 | 0.0626 | 0.557 | 7.5 |
| Rxn #02 | FTL Plate 21 | G1 | 50 | 0.484 | 0.0626 | 0.557 | 14.8 |
| Rxn #02 | FTL Plate 21 | H1: FOC | - | 0.555 | 0.0626 | 0.557 | 0.4 |
| Rxn #02 | FTL Plate 21 | A2: NFC | - | 0.067 | 0.0626 | 0.557 | 99.1 |
| Rxn #02 | FTL Plate 21 | B2 | 50 | 0.559 | 0.0626 | 0.557 | -0.4 |
| Rxn #02 | FTL Plate 21 | C2 | 50 | 0.580 | 0.0626 | 0.557 | -4.7 |
| Rxn #02 | FTL Plate 21 | D2 | 50 | 0.541 | 0.0626 | 0.557 | 3.2 |
| Rxn #02 | FTL Plate 21 | E2 | 50 | 0.546 | 0.0626 | 0.557 | 2.2 |
| Rxn #02 | FTL Plate 21 | F2 | 50 | 0.522 | 0.0626 | 0.557 | 7.1 |
| Rxn #02 | FTL Plate 21 | G2 | 50 | 0.534 | 0.0626 | 0.557 | 4.7 |
| Rxn #02 | FTL Plate 21 | H2: FOC | - | 0.577 | 0.0626 | 0.557 | -4.0 |
| Rxn #02 | FTL Plate 21 | A3: NFC | - | 0.062 | 0.0626 | 0.557 | 100.1 |
| Rxn #02 | FTL Plate 21 | B3 | 50 | 0.609 | 0.0626 | 0.557 | -10.5 |
| Rxn #02 | FTL Plate 21 | C3 | 50 | 0.558 | 0.0626 | 0.557 | -0.2 |
| Rxn #02 | FTL Plate 21 | D3 | 50 | 0.589 | 0.0626 | 0.557 | -6.5 |
| Rxn #02 | FTL Plate 21 | E3 | 50 | 0.570 | 0.0626 | 0.557 | -2.6 |
| Rxn #02 | FTL Plate 21 | F3 | 50 | 0.557 | 0.0626 | 0.557 | 0.0 |
| Rxn #02 | FTL Plate 21 | G3 | 50 | 0.547 | 0.0626 | 0.557 | 2.0 |
| Rxn #02 | FTL Plate 21 | H3: FOC | - | 0.573 | 0.0626 | 0.557 | -3.2 |
| Rxn #02 | FTL Plate 21 | A4: NFC | - | 0.062 | 0.0626 | 0.557 | 100.1 |
| Rxn #02 | FTL Plate 21 | B4 | 50 | 0.592 | 0.0626 | 0.557 | -7.1 |
| Rxn #02 | FTL Plate 21 | C4 | 50 | 0.577 | 0.0626 | 0.557 | -4.0 |
| Rxn #02 | FTL Plate 21 | D4 | 50 | 0.580 | 0.0626 | 0.557 | -4.7 |
| Rxn #02 | FTL Plate 21 | E4 | 50 | 0.567 | 0.0626 | 0.557 | -2.0 |
| Rxn #02 | FTL Plate 21 | F4 | 50 | 0.556 | 0.0626 | 0.557 | 0.2 |
| Rxn #02 | FTL Plate 21 | G4 | 50 | 0.547 | 0.0626 | 0.557 | 2.0 |
| Rxn #02 | FTL Plate 21 | H4: FOC | - | 0.563 | 0.0626 | 0.557 | -1.2 |
| Rxn #02 | FTL Plate 21 | A5: NFC | - | 0.056 | 0.0626 | 0.557 | 101.3 |
| Rxn #02 | FTL Plate 21 | B5: NFC | - | 0.058 | 0.0626 | 0.557 | 100.9 |
| Rxn #02 | FTL Plate 21 | C5: NFC | - | 0.058 | 0.0626 | 0.557 | 100.9 |
| Rxn #02 | FTL Plate 21 | D5: NFC | - | 0.053 | 0.0626 | 0.557 | 101.9 |
| Rxn #02 | FTL Plate 21 | E5: FOC | - | 0.566 | 0.0626 | 0.557 | -1.8 |
| Rxn #02 | FTL Plate 21 | F5: FOC | - | 0.552 | 0.0626 | 0.557 | 1.0 |
| Rxn #02 | FTL Plate 21 | G5: FOC | - | 0.556 | 0.0626 | 0.557 | 0.2 |
| Rxn #02 | FTL Plate 21 | H5: FOC | - | 0.555 | 0.0626 | 0.557 | 0.4 |
| Rxn #02 | FTL Plate 21 | A6: NFC | - | 0.055 | 0.0626 | 0.557 | 101.5 |
| Rxn #02 | FTL Plate 21 | B6 | 50 | 0.579 | 0.0626 | 0.557 | -4.4 |
| Rxn #02 | FTL Plate 21 | C6 | 50 | 0.561 | 0.0626 | 0.557 | -0.8 |
| Rxn #02 | FTL Plate 21 | D6 | 50 | 0.579 | 0.0626 | 0.557 | -4.4 |
| Rxn #02 | FTL Plate 21 | E6 | 50 | 0.460 | 0.0626 | 0.557 | 19.6 |
| Rxn #02 | FTL Plate 21 | F6 | 50 | 0.537 | 0.0626 | 0.557 | 4.0 |
| Rxn #02 | FTL Plate 21 | G6 | 50 | 0.541 | 0.0626 | 0.557 | 3.2 |
| Rxn #02 | FTL Plate 21 | H6: FOC | - | 0.558 | 0.0626 | 0.557 | -0.2 |
| Rxn #02 | FTL Plate 21 | A7: NFC | - | 0.055 | 0.0626 | 0.557 | 101.5 |
| Rxn #02 | FTL Plate 21 | B7 | 50 | 0.553 | 0.0626 | 0.557 | 0.8 |
| Rxn #02 | FTL Plate 21 | C7 | 50 | 0.526 | 0.0626 | 0.557 | 6.3 |
| Rxn #02 | FTL Plate 21 | D7 | 50 | 0.531 | 0.0626 | 0.557 | 5.3 |
| Rxn #02 | FTL Plate 21 | E7 | 50 | 0.564 | 0.0626 | 0.557 | -1.4 |
| Rxn #02 | FTL Plate 21 | F7 | 50 | 0.544 | 0.0626 | 0.557 | 2.6 |
| Rxn #02 | FTL Plate 21 | G7 | 50 | 0.554 | 0.0626 | 0.557 | 0.6 |
| Rxn #02 | FTL Plate 21 | H7: FOC | - | 0.564 | 0.0626 | 0.557 | -1.4 |
| Rxn #02 | FTL Plate 21 | A8: NFC | - | 0.061 | 0.0626 | 0.557 | 100.3 |
| Rxn #02 | FTL Plate 21 | B8 | 50 | 0.542 | 0.0626 | 0.557 | 3.0 |
| Rxn #02 | FTL Plate 21 | C8 | 50 | 0.570 | 0.0626 | 0.557 | -2.6 |
| Rxn #02 | FTL Plate 21 | D8 | 50 | 0.541 | 0.0626 | 0.557 | 3.2 |
| Rxn #02 | FTL Plate 21 | E8 | 50 | 0.613 | 0.0626 | 0.557 | -11.3 |
| Rxn #02 | FTL Plate 21 | F8 | 50 | 0.564 | 0.0626 | 0.557 | -1.4 |
| Rxn #02 | FTL Plate 21 | G8 | 50 | 0.600 | 0.0626 | 0.557 | -8.7 |
| Rxn #02 | FTL Plate 21 | H8: FOC | - | 0.551 | 0.0626 | 0.557 | 1.2 |
| Rxn #02 | FTL Plate 21 | A9: NFC | - | 0.071 | 0.0626 | 0.557 | 98.3 |
| Rxn #02 | FTL Plate 21 | B9 | 50 | 0.577 | 0.0626 | 0.557 | -4.0 |
| Rxn #02 | FTL Plate 21 | C9 | 50 | 0.525 | 0.0626 | 0.557 | 6.5 |
| Rxn #02 | FTL Plate 21 | D9 | 50 | 0.561 | 0.0626 | 0.557 | -0.8 |
| Rxn #02 | FTL Plate 21 | E9 | 50 | 0.548 | 0.0626 | 0.557 | 1.8 |
| Rxn #02 | FTL Plate 21 | F9 | 50 | 0.560 | 0.0626 | 0.557 | -0.6 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #02 | FTL Plate 21 | G9 | 50 | 0.533 | 0.0626 | 0.557 | 4.9 |
| Rxn #02 | FTL Plate 21 | H9: FOC | - | 0.545 | 0.0626 | 0.557 | 2.4 |
| Rxn #02 | FTL Plate 21 | A10: NFC | - | 0.069 | 0.0626 | 0.557 | 98.7 |
| Rxn #02 | FTL Plate 21 | B10 | 50 | 0.549 | 0.0626 | 0.557 | 1.6 |
| Rxn #02 | FTL Plate 21 | C10 | 50 | 0.546 | 0.0626 | 0.557 | 2.2 |
| Rxn #02 | FTL Plate 21 | D10 | 50 | 0.549 | 0.0626 | 0.557 | 1.6 |
| Rxn #02 | FTL Plate 21 | E10 | 50 | 0.535 | 0.0626 | 0.557 | 4.4 |
| Rxn #02 | FTL Plate 21 | F10 | 50 | 0.560 | 0.0626 | 0.557 | -0.6 |
| Rxn #02 | FTL Plate 21 | G10 | 50 | 0.539 | 0.0626 | 0.557 | 3.6 |
| Rxn #02 | FTL Plate 21 | H10: FOC | - | 0.549 | 0.0626 | 0.557 | 1.6 |
| Rxn #02 | FTL Plate 21 | A11: NFC | - | 0.074 | 0.0626 | 0.557 | 97.7 |
| Rxn #02 | FTL Plate 21 | B11 | 50 | 0.574 | 0.0626 | 0.557 | -3.4 |
| Rxn #02 | FTL Plate 21 | C11 | 50 | 0.578 | 0.0626 | 0.557 | -4.2 |
| Rxn #02 | FTL Plate 21 | D11 | 50 | 0.552 | 0.0626 | 0.557 | 1.0 |
| Rxn #02 | FTL Plate 21 | E11 | 50 | 0.510 | 0.0626 | 0.557 | 9.5 |
| Rxn #02 | FTL Plate 21 | F11 | 50 | 0.538 | 0.0626 | 0.557 | 3.8 |
| Rxn #02 | FTL Plate 21 | G11 | 50 | 0.542 | 0.0626 | 0.557 | 3.0 |
| Rxn #02 | FTL Plate 21 | H11: FOC | - | 0.545 | 0.0626 | 0.557 | 2.4 |
| Rxn #02 | FTL Plate 21 | A12: NFC | - | 0.076 | 0.0626 | 0.557 | 97.3 |
| Rxn #02 | FTL Plate 21 | H12: FOC | - | 0.546 | 0.0626 | 0.557 | 2.2 |
| Rxn #04 | FTL Plate 4 | A1: NFC | - | 0.058 | 0.0563 | 0.504 | 99.6 |
| Rxn #04 | FTL Plate 4 | B1 | 50 | 0.474 | 0.0563 | 0.504 | 6.7 |
| Rxn #04 | FTL Plate 4 | C1 | 50 | 0.448 | 0.0563 | 0.504 | 12.5 |
| Rxn #04 | FTL Plate 4 | D1 | 50 | 0.439 | 0.0563 | 0.504 | 14.5 |
| Rxn #04 | FTL Plate 4 | E1 | 50 | 0.468 | 0.0563 | 0.504 | 8.0 |
| Rxn #04 | FTL Plate 4 | F1 | 50 | 0.439 | 0.0563 | 0.504 | 14.5 |
| Rxn #04 | FTL Plate 4 | G1 | 50 | 0.453 | 0.0563 | 0.504 | 11.4 |
| Rxn #04 | FTL Plate 4 | H1: FOC | - | 0.481 | 0.0563 | 0.504 | 5.1 |
| Rxn #04 | FTL Plate 4 | A2: NFC | - | 0.064 | 0.0563 | 0.504 | 98.3 |
| Rxn #04 | FTL Plate 4 | B2 | 50 | 0.469 | 0.0563 | 0.504 | 7.8 |
| Rxn #04 | FTL Plate 4 | C2 | 50 | 0.456 | 0.0563 | 0.504 | 10.7 |
| Rxn #04 | FTL Plate 4 | D2 | 50 | 0.485 | 0.0563 | 0.504 | 4.2 |
| Rxn #04 | FTL Plate 4 | E2 | 50 | 0.448 | 0.0563 | 0.504 | 12.5 |
| Rxn #04 | FTL Plate 4 | F2 | 50 | 0.486 | 0.0563 | 0.504 | 4.0 |
| Rxn #04 | FTL Plate 4 | G2 | 50 | 0.449 | 0.0563 | 0.504 | 12.3 |
| Rxn #04 | FTL Plate 4 | H2: FOC | - | 0.509 | 0.0563 | 0.504 | -1.1 |
| Rxn #04 | FTL Plate 4 | A3: NFC | - | 0.054 | 0.0563 | 0.504 | 100.5 |
| Rxn #04 | FTL Plate 4 | B3 | 50 | 0.484 | 0.0563 | 0.504 | 4.5 |
| Rxn #04 | FTL Plate 4 | C3 | 50 | 0.511 | 0.0563 | 0.504 | -1.6 |
| Rxn #04 | FTL Plate 4 | D3 | 50 | 0.478 | 0.0563 | 0.504 | 5.8 |
| Rxn #04 | FTL Plate 4 | E3 | 50 | 0.522 | 0.0563 | 0.504 | -4.0 |
| Rxn #04 | FTL Plate 4 | F3 | 50 | 0.495 | 0.0563 | 0.504 | 2.0 |
| Rxn #04 | FTL Plate 4 | G3 | 50 | 0.432 | 0.0563 | 0.504 | 16.1 |
| Rxn #04 | FTL Plate 4 | H3: FOC | - | 0.504 | 0.0563 | 0.504 | 0.0 |
| Rxn #04 | FTL Plate 4 | A4: NFC | - | 0.063 | 0.0563 | 0.504 | 98.5 |
| Rxn #04 | FTL Plate 4 | B4 | 50 | 0.512 | 0.0563 | 0.504 | -1.8 |
| Rxn #04 | FTL Plate 4 | C4 | 50 | 0.467 | 0.0563 | 0.504 | 8.3 |
| Rxn #04 | FTL Plate 4 | D4 | 50 | 0.504 | 0.0563 | 0.504 | 0.0 |
| Rxn #04 | FTL Plate 4 | E4 | 50 | 0.468 | 0.0563 | 0.504 | 8.0 |
| Rxn #04 | FTL Plate 4 | F4 | 50 | 0.515 | 0.0563 | 0.504 | -2.5 |
| Rxn #04 | FTL Plate 4 | G4 | 50 | 0.453 | 0.0563 | 0.504 | 11.4 |
| Rxn #04 | FTL Plate 4 | H4: FOC | - | 0.515 | 0.0563 | 0.504 | -2.5 |
| Rxn #04 | FTL Plate 4 | A5: NFC | - | 0.051 | 0.0563 | 0.504 | 101.2 |
| Rxn #04 | FTL Plate 4 | B5: NFC | - | 0.057 | 0.0563 | 0.504 | 99.8 |
| Rxn #04 | FTL Plate 4 | C5: NFC | - | 0.052 | 0.0563 | 0.504 | 101.0 |
| Rxn #04 | FTL Plate 4 | D5: NFC | - | 0.043 | 0.0563 | 0.504 | 103.0 |
| Rxn #04 | FTL Plate 4 | E5: FOC | - | 0.522 | 0.0563 | 0.504 | -4.0 |
| Rxn #04 | FTL Plate 4 | F5: FOC | - | 0.506 | 0.0563 | 0.504 | -0.4 |
| Rxn #04 | FTL Plate 4 | G5: FOC | - | 0.496 | 0.0563 | 0.504 | 1.8 |
| Rxn #04 | FTL Plate 4 | H5: FOC | - | 0.508 | 0.0563 | 0.504 | -0.9 |
| Rxn #04 | FTL Plate 4 | A6: NFC | - | 0.057 | 0.0563 | 0.504 | 99.8 |
| Rxn #04 | FTL Plate 4 | B6 | 50 | 0.508 | 0.0563 | 0.504 | -0.9 |
| Rxn #04 | FTL Plate 4 | C6 | 50 | 0.504 | 0.0563 | 0.504 | 0.0 |
| Rxn #04 | FTL Plate 4 | D6 | 50 | 0.471 | 0.0563 | 0.504 | 7.4 |
| Rxn #04 | FTL Plate 4 | E6 | 50 | 0.505 | 0.0563 | 0.504 | -0.2 |
| Rxn #04 | FTL Plate 4 | F6 | 50 | 0.497 | 0.0563 | 0.504 | 1.6 |
| Rxn #04 | FTL Plate 4 | G6 | 50 | 0.445 | 0.0563 | 0.504 | 13.2 |
| Rxn #04 | FTL Plate 4 | H6: FOC | - | 0.506 | 0.0563 | 0.504 | -0.4 |
| Rxn #04 | FTL Plate 4 | A7: NFC | - | 0.051 | 0.0563 | 0.504 | 101.2 |
| Rxn #04 | FTL Plate 4 | B7 | 50 | 0.503 | 0.0563 | 0.504 | 0.2 |

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| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #04 | FTL Plate 4 | C7 | 50 | 0.474 | 0.0563 | 0.504 | 6.7 |
| Rxn #04 | FTL Plate 4 | D7 | 50 | 0.501 | 0.0563 | 0.504 | 0.7 |
| Rxn #04 | FTL Plate 4 | E7 | 50 | 0.512 | 0.0563 | 0.504 | -1.8 |
| Rxn #04 | FTL Plate 4 | F7 | 50 | 0.468 | 0.0563 | 0.504 | 8.0 |
| Rxn #04 | FTL Plate 4 | G7 | 50 | 0.482 | 0.0563 | 0.504 | 4.9 |
| Rxn #04 | FTL Plate 4 | H7: FOC | - | 0.507 | 0.0563 | 0.504 | -0.7 |
| Rxn #04 | FTL Plate 4 | A8: NFC | - | 0.052 | 0.0563 | 0.504 | 101.0 |
| Rxn #04 | FTL Plate 4 | B8 | 50 | 0.495 | 0.0563 | 0.504 | 2.0 |
| Rxn #04 | FTL Plate 4 | C8 | 50 | 0.494 | 0.0563 | 0.504 | 2.2 |
| Rxn #04 | FTL Plate 4 | D8 | 50 | 0.468 | 0.0563 | 0.504 | 8.0 |
| Rxn #04 | FTL Plate 4 | E8 | 50 | 0.486 | 0.0563 | 0.504 | 4.0 |
| Rxn #04 | FTL Plate 4 | F8 | 50 | 0.479 | 0.0563 | 0.504 | 5.6 |
| Rxn #04 | FTL Plate 4 | G8 | 50 | 0.448 | 0.0563 | 0.504 | 12.5 |
| Rxn #04 | FTL Plate 4 | H8: FOC | - | 0.506 | 0.0563 | 0.504 | -0.4 |
| Rxn #04 | FTL Plate 4 | A9: NFC | - | 0.057 | 0.0563 | 0.504 | 99.8 |
| Rxn #04 | FTL Plate 4 | B9 | 50 | 0.507 | 0.0563 | 0.504 | -0.7 |
| Rxn #04 | FTL Plate 4 | C9 | 50 | 0.504 | 0.0563 | 0.504 | 0.0 |
| Rxn #04 | FTL Plate 4 | D9 | 50 | 0.503 | 0.0563 | 0.504 | 0.2 |
| Rxn #04 | FTL Plate 4 | E9 | 50 | 0.518 | 0.0563 | 0.504 | -3.1 |
| Rxn #04 | FTL Plate 4 | F9 | 50 | 0.479 | 0.0563 | 0.504 | 5.6 |
| Rxn #04 | FTL Plate 4 | G9 | 50 | 0.342 | 0.0563 | 0.504 | 36.2 |
| Rxn #04 | FTL Plate 4 | H9: FOC | - | 0.502 | 0.0563 | 0.504 | 0.4 |
| Rxn #04 | FTL Plate 4 | A10: NFC | - | 0.059 | 0.0563 | 0.504 | 99.4 |
| Rxn #04 | FTL Plate 4 | B10 | 50 | 0.484 | 0.0563 | 0.504 | 4.5 |
| Rxn #04 | FTL Plate 4 | C10 | 50 | 0.519 | 0.0563 | 0.504 | -3.4 |
| Rxn #04 | FTL Plate 4 | D10 | 50 | 0.499 | 0.0563 | 0.504 | 1.1 |
| Rxn #04 | FTL Plate 4 | E10 | 50 | 0.513 | 0.0563 | 0.504 | -2.0 |
| Rxn #04 | FTL Plate 4 | F10 | 50 | 0.417 | 0.0563 | 0.504 | 19.4 |
| Rxn #04 | FTL Plate 4 | G10 | 50 | 0.474 | 0.0563 | 0.504 | 6.7 |
| Rxn #04 | FTL Plate 4 | H10: FOC | - | 0.508 | 0.0563 | 0.504 | -0.9 |
| Rxn #04 | FTL Plate 4 | A11: NFC | - | 0.065 | 0.0563 | 0.504 | 98.1 |
| Rxn #04 | FTL Plate 4 | B11 | 50 | 0.500 | 0.0563 | 0.504 | 0.9 |
| Rxn #04 | FTL Plate 4 | C11 | 50 | 0.507 | 0.0563 | 0.504 | -0.7 |
| Rxn #04 | FTL Plate 4 | D11 | 50 | 0.501 | 0.0563 | 0.504 | 0.7 |
| Rxn #04 | FTL Plate 4 | E11 | 50 | 0.398 | 0.0563 | 0.504 | 23.7 |
| Rxn #04 | FTL Plate 4 | F11 | 50 | 0.502 | 0.0563 | 0.504 | 0.4 |
| Rxn #04 | FTL Plate 4 | G11 | 50 | 0.486 | 0.0563 | 0.504 | 4.0 |
| Rxn #04 | FTL Plate 4 | H11: FOC | - | 0.498 | 0.0563 | 0.504 | 1.3 |
| Rxn #04 | FTL Plate 4 | A12: NFC | - | 0.061 | 0.0563 | 0.504 | 99.0 |
| Rxn #04 | FTL Plate 4 | H12: FOC | - | 0.495 | 0.0563 | 0.504 | 2.0 |
| Rxn #05 | FTL Plate 16 | A1: NFC | - | 0.062 | 0.0541 | 0.554 | 98.4 |
| Rxn #05 | FTL Plate 16 | B1 | 50 | 0.545 | 0.0541 | 0.554 | 1.8 |
| Rxn #05 | FTL Plate 16 | C1 | 50 | 0.511 | 0.0541 | 0.554 | 8.6 |
| Rxn #05 | FTL Plate 16 | D1 | 50 | 0.561 | 0.0541 | 0.554 | -1.4 |
| Rxn #05 | FTL Plate 16 | E1 | 50 | 0.543 | 0.0541 | 0.554 | 2.2 |
| Rxn #05 | FTL Plate 16 | F1 | 50 | 0.526 | 0.0541 | 0.554 | 5.6 |
| Rxn #05 | FTL Plate 16 | G1 | 50 | 0.524 | 0.0541 | 0.554 | 6.0 |
| Rxn #05 | FTL Plate 16 | H1: FOC | - | 0.534 | 0.0541 | 0.554 | 4.0 |
| Rxn #05 | FTL Plate 16 | A2: NFC | - | 0.052 | 0.0541 | 0.554 | 100.4 |
| Rxn #05 | FTL Plate 16 | B2 | 50 | 0.566 | 0.0541 | 0.554 | -2.4 |
| Rxn #05 | FTL Plate 16 | C2 | 50 | 0.569 | 0.0541 | 0.554 | -3.0 |
| Rxn #05 | FTL Plate 16 | D2 | 50 | 0.554 | 0.0541 | 0.554 | 0.0 |
| Rxn #05 | FTL Plate 16 | E2 | 50 | 0.529 | 0.0541 | 0.554 | 5.0 |
| Rxn #05 | FTL Plate 16 | F2 | 50 | 0.562 | 0.0541 | 0.554 | -1.6 |
| Rxn #05 | FTL Plate 16 | G2 | 50 | 0.546 | 0.0541 | 0.554 | 1.6 |
| Rxn #05 | FTL Plate 16 | H2: FOC | - | 0.562 | 0.0541 | 0.554 | -1.6 |
| Rxn #05 | FTL Plate 16 | A3: NFC | - | 0.058 | 0.0541 | 0.554 | 99.2 |
| Rxn #05 | FTL Plate 16 | B3 | 50 | 0.552 | 0.0541 | 0.554 | 0.4 |
| Rxn #05 | FTL Plate 16 | C3 | 50 | 0.560 | 0.0541 | 0.554 | -1.2 |
| Rxn #05 | FTL Plate 16 | D3 | 50 | 0.565 | 0.0541 | 0.554 | -2.2 |
| Rxn #05 | FTL Plate 16 | E3 | 50 | 0.557 | 0.0541 | 0.554 | -0.6 |
| Rxn #05 | FTL Plate 16 | F3 | 50 | 0.545 | 0.0541 | 0.554 | 1.8 |
| Rxn #05 | FTL Plate 16 | G3 | 50 | 0.536 | 0.0541 | 0.554 | 3.6 |
| Rxn #05 | FTL Plate 16 | H3: FOC | - | 0.577 | 0.0541 | 0.554 | -4.6 |
| Rxn #05 | FTL Plate 16 | A4: NFC | - | 0.064 | 0.0541 | 0.554 | 98.0 |
| Rxn #05 | FTL Plate 16 | B4 | 50 | 0.562 | 0.0541 | 0.554 | -1.6 |
| Rxn #05 | FTL Plate 16 | C4 | 50 | 0.511 | 0.0541 | 0.554 | 8.6 |
| Rxn #05 | FTL Plate 16 | D4 | 50 | 0.549 | 0.0541 | 0.554 | 1.0 |
| Rxn #05 | FTL Plate 16 | E4 | 50 | 0.511 | 0.0541 | 0.554 | 8.6 |
| Rxn #05 | FTL Plate 16 | F4 | 50 | 0.541 | 0.0541 | 0.554 | 2.6 |

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| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #05 | FTL Plate 16 | G4 | 50 | 0.491 | 0.0541 | 0.554 | 12.6 |
| Rxn #05 | FTL Plate 16 | H4: FOC | - | 0.553 | 0.0541 | 0.554 | 0.2 |
| Rxn #05 | FTL Plate 16 | A5: NFC | - | 0.060 | 0.0541 | 0.554 | 98.8 |
| Rxn #05 | FTL Plate 16 | B5: NFC | - | 0.047 | 0.0541 | 0.554 | 101.4 |
| Rxn #05 | FTL Plate 16 | C5: NFC | - | 0.044 | 0.0541 | 0.554 | 102.0 |
| Rxn #05 | FTL Plate 16 | D5: NFC | - | 0.045 | 0.0541 | 0.554 | 101.8 |
| Rxn #05 | FTL Plate 16 | E5: FOC | - | 0.550 | 0.0541 | 0.554 | 0.8 |
| Rxn #05 | FTL Plate 16 | F5: FOC | - | 0.549 | 0.0541 | 0.554 | 1.0 |
| Rxn #05 | FTL Plate 16 | G5: FOC | - | 0.568 | 0.0541 | 0.554 | -2.8 |
| Rxn #05 | FTL Plate 16 | H5: FOC | - | 0.545 | 0.0541 | 0.554 | 1.8 |
| Rxn #05 | FTL Plate 16 | A6: NFC | - | 0.059 | 0.0541 | 0.554 | 99.0 |
| Rxn #05 | FTL Plate 16 | B6 | 50 | 0.611 | 0.0541 | 0.554 | -11.4 |
| Rxn #05 | FTL Plate 16 | C6 | 50 | 0.571 | 0.0541 | 0.554 | -3.4 |
| Rxn #05 | FTL Plate 16 | D6 | 50 | 0.581 | 0.0541 | 0.554 | -5.4 |
| Rxn #05 | FTL Plate 16 | E6 | 50 | 0.462 | 0.0541 | 0.554 | 18.4 |
| Rxn #05 | FTL Plate 16 | F6 | 50 | 0.558 | 0.0541 | 0.554 | -0.8 |
| Rxn #05 | FTL Plate 16 | G6 | 50 | 0.540 | 0.0541 | 0.554 | 2.8 |
| Rxn #05 | FTL Plate 16 | H6: FOC | - | 0.567 | 0.0541 | 0.554 | -2.6 |
| Rxn #05 | FTL Plate 16 | A7: NFC | - | 0.044 | 0.0541 | 0.554 | 102.0 |
| Rxn #05 | FTL Plate 16 | B7 | 50 | 0.563 | 0.0541 | 0.554 | -1.8 |
| Rxn #05 | FTL Plate 16 | C7 | 50 | 0.583 | 0.0541 | 0.554 | -5.8 |
| Rxn #05 | FTL Plate 16 | D7 | 50 | 0.542 | 0.0541 | 0.554 | 2.4 |
| Rxn #05 | FTL Plate 16 | E7 | 50 | 0.546 | 0.0541 | 0.554 | 1.6 |
| Rxn #05 | FTL Plate 16 | F7 | 50 | 0.520 | 0.0541 | 0.554 | 6.8 |
| Rxn #05 | FTL Plate 16 | G7 | 50 | 0.533 | 0.0541 | 0.554 | 4.2 |
| Rxn #05 | FTL Plate 16 | H7: FOC | - | 0.556 | 0.0541 | 0.554 | -0.4 |
| Rxn #05 | FTL Plate 16 | A8: NFC | - | 0.045 | 0.0541 | 0.554 | 101.8 |
| Rxn #05 | FTL Plate 16 | B8 | 50 | 0.567 | 0.0541 | 0.554 | -2.6 |
| Rxn #05 | FTL Plate 16 | C8 | 50 | 0.558 | 0.0541 | 0.554 | -0.8 |
| Rxn #05 | FTL Plate 16 | D8 | 50 | 0.580 | 0.0541 | 0.554 | -5.2 |
| Rxn #05 | FTL Plate 16 | E8 | 50 | 0.547 | 0.0541 | 0.554 | 1.4 |
| Rxn #05 | FTL Plate 16 | F8 | 50 | 0.531 | 0.0541 | 0.554 | 4.6 |
| Rxn #05 | FTL Plate 16 | G8 | 50 | 0.569 | 0.0541 | 0.554 | -3.0 |
| Rxn #05 | FTL Plate 16 | H8: FOC | - | 0.557 | 0.0541 | 0.554 | -0.6 |
| Rxn #05 | FTL Plate 16 | A9: NFC | - | 0.056 | 0.0541 | 0.554 | 99.6 |
| Rxn #05 | FTL Plate 16 | B9 | 50 | 0.609 | 0.0541 | 0.554 | -11.0 |
| Rxn #05 | FTL Plate 16 | C9 | 50 | 0.549 | 0.0541 | 0.554 | 1.0 |
| Rxn #05 | FTL Plate 16 | D9 | 50 | 0.565 | 0.0541 | 0.554 | -2.2 |
| Rxn #05 | FTL Plate 16 | E9 | 50 | 0.545 | 0.0541 | 0.554 | 1.8 |
| Rxn #05 | FTL Plate 16 | F9 | 50 | 0.551 | 0.0541 | 0.554 | 0.6 |
| Rxn #05 | FTL Plate 16 | G9 | 50 | 0.555 | 0.0541 | 0.554 | -0.2 |
| Rxn #05 | FTL Plate 16 | H9: FOC | - | 0.561 | 0.0541 | 0.554 | -1.4 |
| Rxn #05 | FTL Plate 16 | A10: NFC | - | 0.052 | 0.0541 | 0.554 | 100.4 |
| Rxn #05 | FTL Plate 16 | B10 | 50 | 0.560 | 0.0541 | 0.554 | -1.2 |
| Rxn #05 | FTL Plate 16 | C10 | 50 | 0.550 | 0.0541 | 0.554 | 0.8 |
| Rxn #05 | FTL Plate 16 | D10 | 50 | 0.528 | 0.0541 | 0.554 | 5.2 |
| Rxn #05 | FTL Plate 16 | E10 | 50 | 0.529 | 0.0541 | 0.554 | 5.0 |
| Rxn #05 | FTL Plate 16 | F10 | 50 | 0.545 | 0.0541 | 0.554 | 1.8 |
| Rxn #05 | FTL Plate 16 | G10 | 50 | 0.555 | 0.0541 | 0.554 | -0.2 |
| Rxn #05 | FTL Plate 16 | H10: FOC | - | 0.536 | 0.0541 | 0.554 | 3.6 |
| Rxn #05 | FTL Plate 16 | A11: NFC | - | 0.065 | 0.0541 | 0.554 | 97.8 |
| Rxn #05 | FTL Plate 16 | B11 | 50 | 0.563 | 0.0541 | 0.554 | -1.8 |
| Rxn #05 | FTL Plate 16 | C11 | 50 | 0.576 | 0.0541 | 0.554 | -4.4 |
| Rxn #05 | FTL Plate 16 | D11 | 50 | 0.555 | 0.0541 | 0.554 | -0.2 |
| Rxn #05 | FTL Plate 16 | E11 | 50 | 0.549 | 0.0541 | 0.554 | 1.0 |
| Rxn #05 | FTL Plate 16 | F11 | 50 | 0.548 | 0.0541 | 0.554 | 1.2 |
| Rxn #05 | FTL Plate 16 | G11 | 50 | 0.539 | 0.0541 | 0.554 | 3.0 |
| Rxn #05 | FTL Plate 16 | H11: FOC | - | 0.546 | 0.0541 | 0.554 | 1.6 |
| Rxn #05 | FTL Plate 16 | A12: NFC | - | 0.058 | 0.0541 | 0.554 | 99.2 |
| Rxn #05 | FTL Plate 16 | H12: FOC | - | 0.542 | 0.0541 | 0.554 | 2.4 |
| Rxn #06 | FTL Plate 19 | A1: NFC | - | 0.043 | 0.0458 | 0.513 | 100.6 |
| Rxn #06 | FTL Plate 19 | B1 | 50 | 0.543 | 0.0458 | 0.513 | -6.4 |
| Rxn #06 | FTL Plate 19 | C1 | 50 | 0.523 | 0.0458 | 0.513 | -2.1 |
| Rxn #06 | FTL Plate 19 | D1 | 50 | 0.451 | 0.0458 | 0.513 | 13.3 |
| Rxn #06 | FTL Plate 19 | E1 | 50 | 0.445 | 0.0458 | 0.513 | 14.6 |
| Rxn #06 | FTL Plate 19 | F1 | 50 | 0.449 | 0.0458 | 0.513 | 13.7 |
| Rxn #06 | FTL Plate 19 | G1 | 50 | 0.423 | 0.0458 | 0.513 | 19.3 |
| Rxn #06 | FTL Plate 19 | H1: FOC | - | 0.495 | 0.0458 | 0.513 | 3.9 |
| Rxn #06 | FTL Plate 19 | A2: NFC | - | 0.054 | 0.0458 | 0.513 | 98.2 |
| Rxn #06 | FTL Plate 19 | B2 | 50 | 0.492 | 0.0458 | 0.513 | 4.5 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #06 | FTL Plate 19 | C2 | 50 | 0.492 | 0.0458 | 0.513 | 4.5 |
| Rxn #06 | FTL Plate 19 | D2 | 50 | 0.524 | 0.0458 | 0.513 | -2.4 |
| Rxn #06 | FTL Plate 19 | E2 | 50 | 0.531 | 0.0458 | 0.513 | -3.9 |
| Rxn #06 | FTL Plate 19 | F2 | 50 | 0.485 | 0.0458 | 0.513 | 6.0 |
| Rxn #06 | FTL Plate 19 | G2 | 50 | 0.483 | 0.0458 | 0.513 | 6.4 |
| Rxn #06 | FTL Plate 19 | H2: FOC | - | 0.520 | 0.0458 | 0.513 | -1.5 |
| Rxn #06 | FTL Plate 19 | A3: NFC | - | 0.044 | 0.0458 | 0.513 | 100.4 |
| Rxn #06 | FTL Plate 19 | B3 | 50 | 0.530 | 0.0458 | 0.513 | -3.6 |
| Rxn #06 | FTL Plate 19 | C3 | 50 | 0.537 | 0.0458 | 0.513 | -5.1 |
| Rxn #06 | FTL Plate 19 | D3 | 50 | 0.501 | 0.0458 | 0.513 | 2.6 |
| Rxn #06 | FTL Plate 19 | E3 | 50 | 0.532 | 0.0458 | 0.513 | -4.1 |
| Rxn #06 | FTL Plate 19 | F3 | 50 | 0.496 | 0.0458 | 0.513 | 3.6 |
| Rxn #06 | FTL Plate 19 | G3 | 50 | 0.491 | 0.0458 | 0.513 | 4.7 |
| Rxn #06 | FTL Plate 19 | H3: FOC | - | 0.509 | 0.0458 | 0.513 | 0.9 |
| Rxn #06 | FTL Plate 19 | A4: NFC | - | 0.045 | 0.0458 | 0.513 | 100.2 |
| Rxn #06 | FTL Plate 19 | B4 | 50 | 0.499 | 0.0458 | 0.513 | 3.0 |
| Rxn #06 | FTL Plate 19 | C4 | 50 | 0.488 | 0.0458 | 0.513 | 5.4 |
| Rxn #06 | FTL Plate 19 | D4 | 50 | 0.486 | 0.0458 | 0.513 | 5.8 |
| Rxn #06 | FTL Plate 19 | E4 | 50 | 0.486 | 0.0458 | 0.513 | 5.8 |
| Rxn #06 | FTL Plate 19 | F4 | 50 | 0.455 | 0.0458 | 0.513 | 12.4 |
| Rxn #06 | FTL Plate 19 | G4 | 50 | 0.475 | 0.0458 | 0.513 | 8.1 |
| Rxn #06 | FTL Plate 19 | H4: FOC | - | 0.509 | 0.0458 | 0.513 | 0.9 |
| Rxn #06 | FTL Plate 19 | A5: NFC | - | 0.044 | 0.0458 | 0.513 | 100.4 |
| Rxn #06 | FTL Plate 19 | B5: NFC | - | 0.046 | 0.0458 | 0.513 | 100.0 |
| Rxn #06 | FTL Plate 19 | C5: NFC | - | 0.039 | 0.0458 | 0.513 | 101.5 |
| Rxn #06 | FTL Plate 19 | D5: NFC | - | 0.044 | 0.0458 | 0.513 | 100.4 |
| Rxn #06 | FTL Plate 19 | E5: FOC | - | 0.531 | 0.0458 | 0.513 | -3.9 |
| Rxn #06 | FTL Plate 19 | F5: FOC | - | 0.524 | 0.0458 | 0.513 | -2.4 |
| Rxn #06 | FTL Plate 19 | G5: FOC | - | 0.523 | 0.0458 | 0.513 | -2.1 |
| Rxn #06 | FTL Plate 19 | H5: FOC | - | 0.517 | 0.0458 | 0.513 | -0.9 |
| Rxn #06 | FTL Plate 19 | A6: NFC | - | 0.038 | 0.0458 | 0.513 | 101.7 |
| Rxn #06 | FTL Plate 19 | B6 | 50 | 0.484 | 0.0458 | 0.513 | 6.2 |
| Rxn #06 | FTL Plate 19 | C6 | 50 | 0.459 | 0.0458 | 0.513 | 11.6 |
| Rxn #06 | FTL Plate 19 | D6 | 50 | 0.475 | 0.0458 | 0.513 | 8.1 |
| Rxn #06 | FTL Plate 19 | E6 | 50 | 0.507 | 0.0458 | 0.513 | 1.3 |
| Rxn #06 | FTL Plate 19 | F6 | 50 | 0.499 | 0.0458 | 0.513 | 3.0 |
| Rxn #06 | FTL Plate 19 | G6 | 50 | 0.505 | 0.0458 | 0.513 | 1.7 |
| Rxn #06 | FTL Plate 19 | H6: FOC | - | 0.502 | 0.0458 | 0.513 | 2.4 |
| Rxn #06 | FTL Plate 19 | A7: NFC | - | 0.054 | 0.0458 | 0.513 | 98.2 |
| Rxn #06 | FTL Plate 19 | B7 | 50 | 0.492 | 0.0458 | 0.513 | 4.5 |
| Rxn #06 | FTL Plate 19 | C7 | 50 | 0.504 | 0.0458 | 0.513 | 1.9 |
| Rxn #06 | FTL Plate 19 | D7 | 50 | 0.497 | 0.0458 | 0.513 | 3.4 |
| Rxn #06 | FTL Plate 19 | E7 | 50 | 0.490 | 0.0458 | 0.513 | 4.9 |
| Rxn #06 | FTL Plate 19 | F7 | 50 | 0.501 | 0.0458 | 0.513 | 2.6 |
| Rxn #06 | FTL Plate 19 | G7 | 50 | 0.513 | 0.0458 | 0.513 | 0.0 |
| Rxn #06 | FTL Plate 19 | H7: FOC | - | 0.520 | 0.0458 | 0.513 | -1.5 |
| Rxn #06 | FTL Plate 19 | A8: NFC | - | 0.052 | 0.0458 | 0.513 | 98.7 |
| Rxn #06 | FTL Plate 19 | B8 | 50 | 0.505 | 0.0458 | 0.513 | 1.7 |
| Rxn #06 | FTL Plate 19 | C8 | 50 | 0.528 | 0.0458 | 0.513 | -3.2 |
| Rxn #06 | FTL Plate 19 | D8 | 50 | 0.518 | 0.0458 | 0.513 | -1.1 |
| Rxn #06 | FTL Plate 19 | E8 | 50 | 0.511 | 0.0458 | 0.513 | 0.4 |
| Rxn #06 | FTL Plate 19 | F8 | 50 | 0.499 | 0.0458 | 0.513 | 3.0 |
| Rxn #06 | FTL Plate 19 | G8 | 50 | 0.462 | 0.0458 | 0.513 | 10.9 |
| Rxn #06 | FTL Plate 19 | H8: FOC | - | 0.513 | 0.0458 | 0.513 | 0.0 |
| Rxn #06 | FTL Plate 19 | A9: NFC | - | 0.046 | 0.0458 | 0.513 | 100.0 |
| Rxn #06 | FTL Plate 19 | B9 | 50 | 0.478 | 0.0458 | 0.513 | 7.5 |
| Rxn #06 | FTL Plate 19 | C9 | 50 | 0.458 | 0.0458 | 0.513 | 11.8 |
| Rxn #06 | FTL Plate 19 | D9 | 50 | 0.435 | 0.0458 | 0.513 | 16.7 |
| Rxn #06 | FTL Plate 19 | E9 | 50 | 0.446 | 0.0458 | 0.513 | 14.3 |
| Rxn #06 | FTL Plate 19 | F9 | 50 | 0.469 | 0.0458 | 0.513 | 9.4 |
| Rxn #06 | FTL Plate 19 | G9 | 50 | 0.467 | 0.0458 | 0.513 | 9.8 |
| Rxn #06 | FTL Plate 19 | H9: FOC | - | 0.518 | 0.0458 | 0.513 | -1.1 |
| Rxn #06 | FTL Plate 19 | A10: NFC | - | 0.043 | 0.0458 | 0.513 | 100.6 |
| Rxn #06 | FTL Plate 19 | B10 | 50 | 0.465 | 0.0458 | 0.513 | 10.3 |
| Rxn #06 | FTL Plate 19 | C10 | 50 | 0.489 | 0.0458 | 0.513 | 5.1 |
| Rxn #06 | FTL Plate 19 | D10 | 50 | 0.524 | 0.0458 | 0.513 | -2.4 |
| Rxn #06 | FTL Plate 19 | E10 | 50 | 0.486 | 0.0458 | 0.513 | 5.8 |
| Rxn #06 | FTL Plate 19 | F10 | 50 | 0.526 | 0.0458 | 0.513 | -2.8 |
| Rxn #06 | FTL Plate 19 | G10 | 50 | 0.487 | 0.0458 | 0.513 | 5.6 |
| Rxn #06 | FTL Plate 19 | H10: FOC | - | 0.513 | 0.0458 | 0.513 | 0.0 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #06 | FTL Plate 19 | A11: NFC | - | 0.047 | 0.0458 | 0.513 | 99.7 |
| Rxn #06 | FTL Plate 19 | B11 | 50 | 0.507 | 0.0458 | 0.513 | 1.3 |
| Rxn #06 | FTL Plate 19 | C11 | 50 | 0.502 | 0.0458 | 0.513 | 2.4 |
| Rxn #06 | FTL Plate 19 | D11 | 50 | 0.511 | 0.0458 | 0.513 | 0.4 |
| Rxn #06 | FTL Plate 19 | E11 | 50 | 0.501 | 0.0458 | 0.513 | 2.6 |
| Rxn #06 | FTL Plate 19 | F11 | 50 | 0.501 | 0.0458 | 0.513 | 2.6 |
| Rxn #06 | FTL Plate 19 | G11 | 50 | 0.521 | 0.0458 | 0.513 | -1.7 |
| Rxn #06 | FTL Plate 19 | H11: FOC | - | 0.514 | 0.0458 | 0.513 | -0.2 |
| Rxn #06 | FTL Plate 19 | A12: NFC | - | 0.048 | 0.0458 | 0.513 | 99.5 |
| Rxn #06 | FTL Plate 19 | H12: FOC | - | 0.490 | 0.0458 | 0.513 | 4.9 |
| Rxn #07 | FTL Plate 1 | A1: NFC | - | 0.063 | 0.0597 | 0.532 | 99.3 |
| Rxn #07 | FTL Plate 1 | B1 | 50 | 0.441 | 0.0597 | 0.532 | 19.3 |
| Rxn #07 | FTL Plate 1 | C1 | 50 | 0.511 | 0.0597 | 0.532 | 4.4 |
| Rxn #07 | FTL Plate 1 | D1 | 50 | 0.426 | 0.0597 | 0.532 | 22.4 |
| Rxn #07 | FTL Plate 1 | E1 | 50 | 0.539 | 0.0597 | 0.532 | -1.5 |
| Rxn #07 | FTL Plate 1 | F1 | 50 | 0.479 | 0.0597 | 0.532 | 11.2 |
| Rxn #07 | FTL Plate 1 | G1 | 50 | 0.473 | 0.0597 | 0.532 | 12.5 |
| Rxn #07 | FTL Plate 1 | H1: FOC | - | 0.534 | 0.0597 | 0.532 | -0.4 |
| Rxn #07 | FTL Plate 1 | A2: NFC | - | 0.065 | 0.0597 | 0.532 | 98.9 |
| Rxn #07 | FTL Plate 1 | B2 | 50 | 0.553 | 0.0597 | 0.532 | -4.4 |
| Rxn #07 | FTL Plate 1 | C2 | 50 | 0.452 | 0.0597 | 0.532 | 16.9 |
| Rxn #07 | FTL Plate 1 | D2 | 50 | 0.525 | 0.0597 | 0.532 | 1.5 |
| Rxn #07 | FTL Plate 1 | E2 | 50 | 0.490 | 0.0597 | 0.532 | 8.9 |
| Rxn #07 | FTL Plate 1 | F2 | 50 | 0.415 | 0.0597 | 0.532 | 24.8 |
| Rxn #07 | FTL Plate 1 | G2 | 50 | 0.519 | 0.0597 | 0.532 | 2.8 |
| Rxn #07 | FTL Plate 1 | H2: FOC | - | 0.500 | 0.0597 | 0.532 | 6.8 |
| Rxn #07 | FTL Plate 1 | A3: NFC | - | 0.065 | 0.0597 | 0.532 | 98.9 |
| Rxn #07 | FTL Plate 1 | B3 | 50 | 0.521 | 0.0597 | 0.532 | 2.3 |
| Rxn #07 | FTL Plate 1 | C3 | 50 | 0.557 | 0.0597 | 0.532 | -5.3 |
| Rxn #07 | FTL Plate 1 | D3 | 50 | 0.541 | 0.0597 | 0.532 | -1.9 |
| Rxn #07 | FTL Plate 1 | E3 | 50 | 0.385 | 0.0597 | 0.532 | 31.1 |
| Rxn #07 | FTL Plate 1 | F3 | 50 | 0.523 | 0.0597 | 0.532 | 1.9 |
| Rxn #07 | FTL Plate 1 | G3 | 50 | 0.487 | 0.0597 | 0.532 | 9.5 |
| Rxn #07 | FTL Plate 1 | H3: FOC | - | 0.548 | 0.0597 | 0.532 | -3.4 |
| Rxn #07 | FTL Plate 1 | A4: NFC | - | 0.069 | 0.0597 | 0.532 | 98.0 |
| Rxn #07 | FTL Plate 1 | B4 | 50 | 0.577 | 0.0597 | 0.532 | -9.5 |
| Rxn #07 | FTL Plate 1 | C4 | 50 | 0.578 | 0.0597 | 0.532 | -9.7 |
| Rxn #07 | FTL Plate 1 | D4 | 50 | 0.545 | 0.0597 | 0.532 | -2.8 |
| Rxn #07 | FTL Plate 1 | E4 | 50 | 0.499 | 0.0597 | 0.532 | 7.0 |
| Rxn #07 | FTL Plate 1 | F4 | 50 | 0.567 | 0.0597 | 0.532 | -7.4 |
| Rxn #07 | FTL Plate 1 | G4 | 50 | 0.555 | 0.0597 | 0.532 | -4.9 |
| Rxn #07 | FTL Plate 1 | H4: FOC | - | 0.562 | 0.0597 | 0.532 | -6.4 |
| Rxn #07 | FTL Plate 1 | A5: NFC | - | 0.061 | 0.0597 | 0.532 | 99.7 |
| Rxn #07 | FTL Plate 1 | B5: NFC | - | 0.057 | 0.0597 | 0.532 | 100.6 |
| Rxn #07 | FTL Plate 1 | C5: NFC | - | 0.046 | 0.0597 | 0.532 | 102.9 |
| Rxn #07 | FTL Plate 1 | D5: NFC | - | 0.046 | 0.0597 | 0.532 | 102.9 |
| Rxn #07 | FTL Plate 1 | E5: FOC | - | 0.420 | 0.0597 | 0.532 | 23.7 |
| Rxn #07 | FTL Plate 1 | F5: FOC | - | 0.555 | 0.0597 | 0.532 | -4.9 |
| Rxn #07 | FTL Plate 1 | G5: FOC | - | 0.553 | 0.0597 | 0.532 | -4.4 |
| Rxn #07 | FTL Plate 1 | H5: FOC | - | 0.552 | 0.0597 | 0.532 | -4.2 |
| Rxn #07 | FTL Plate 1 | A6: NFC | - | 0.059 | 0.0597 | 0.532 | 100.1 |
| Rxn #07 | FTL Plate 1 | B6 | 50 | 0.545 | 0.0597 | 0.532 | -2.8 |
| Rxn #07 | FTL Plate 1 | C6 | 50 | 0.544 | 0.0597 | 0.532 | -2.5 |
| Rxn #07 | FTL Plate 1 | D6 | 50 | 0.534 | 0.0597 | 0.532 | -0.4 |
| Rxn #07 | FTL Plate 1 | E6 | 50 | 0.496 | 0.0597 | 0.532 | 7.6 |
| Rxn #07 | FTL Plate 1 | F6 | 50 | 0.434 | 0.0597 | 0.532 | 20.7 |
| Rxn #07 | FTL Plate 1 | G6 | 50 | 0.488 | 0.0597 | 0.532 | 9.3 |
| Rxn #07 | FTL Plate 1 | H6: FOC | - | 0.533 | 0.0597 | 0.532 | -0.2 |
| Rxn #07 | FTL Plate 1 | A7: NFC | - | 0.053 | 0.0597 | 0.532 | 101.4 |
| Rxn #07 | FTL Plate 1 | B7 | 50 | 0.553 | 0.0597 | 0.532 | -4.4 |
| Rxn #07 | FTL Plate 1 | C7 | 50 | 0.544 | 0.0597 | 0.532 | -2.5 |
| Rxn #07 | FTL Plate 1 | D7 | 50 | 0.572 | 0.0597 | 0.532 | -8.5 |
| Rxn #07 | FTL Plate 1 | E7 | 50 | 0.384 | 0.0597 | 0.532 | 31.3 |
| Rxn #07 | FTL Plate 1 | F7 | 50 | 0.554 | 0.0597 | 0.532 | -4.7 |
| Rxn #07 | FTL Plate 1 | G7 | 50 | 0.554 | 0.0597 | 0.532 | -4.7 |
| Rxn #07 | FTL Plate 1 | H7: FOC | - | 0.560 | 0.0597 | 0.532 | -5.9 |
| Rxn #07 | FTL Plate 1 | A8: NFC | - | 0.074 | 0.0597 | 0.532 | 97.0 |
| Rxn #07 | FTL Plate 1 | B8 | 50 | 0.558 | 0.0597 | 0.532 | -5.5 |
| Rxn #07 | FTL Plate 1 | C8 | 50 | 0.561 | 0.0597 | 0.532 | -6.1 |
| Rxn #07 | FTL Plate 1 | D8 | 50 | 0.560 | 0.0597 | 0.532 | -5.9 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #07 | FTL Plate 1 | E8 | 50 | 0.505 | 0.0597 | 0.532 | 5.7 |
| Rxn #07 | FTL Plate 1 | F8 | 50 | 0.583 | 0.0597 | 0.532 | -10.8 |
| Rxn #07 | FTL Plate 1 | G8 | 50 | 0.495 | 0.0597 | 0.532 | 7.8 |
| Rxn #07 | FTL Plate 1 | H8: FOC | - | 0.576 | 0.0597 | 0.532 | -9.3 |
| Rxn #07 | FTL Plate 1 | A9: NFC | - | 0.059 | 0.0597 | 0.532 | 100.1 |
| Rxn #07 | FTL Plate 1 | B9 | 50 | 0.539 | 0.0597 | 0.532 | -1.5 |
| Rxn #07 | FTL Plate 1 | C9 | 50 | 0.507 | 0.0597 | 0.532 | 5.3 |
| Rxn #07 | FTL Plate 1 | D9 | 50 | 0.528 | 0.0597 | 0.532 | 0.8 |
| Rxn #07 | FTL Plate 1 | E9 | 50 | 0.515 | 0.0597 | 0.532 | 3.6 |
| Rxn #07 | FTL Plate 1 | F9 | 50 | 0.499 | 0.0597 | 0.532 | 7.0 |
| Rxn #07 | FTL Plate 1 | G9 | 50 | 0.531 | 0.0597 | 0.532 | 0.2 |
| Rxn #07 | FTL Plate 1 | H9: FOC | - | 0.497 | 0.0597 | 0.532 | 7.4 |
| Rxn #07 | FTL Plate 1 | A10: NFC | - | 0.056 | 0.0597 | 0.532 | 100.8 |
| Rxn #07 | FTL Plate 1 | B10 | 50 | 0.540 | 0.0597 | 0.532 | -1.7 |
| Rxn #07 | FTL Plate 1 | C10 | 50 | 0.548 | 0.0597 | 0.532 | -3.4 |
| Rxn #07 | FTL Plate 1 | D10 | 50 | 0.561 | 0.0597 | 0.532 | -6.1 |
| Rxn #07 | FTL Plate 1 | E10 | 50 | 0.539 | 0.0597 | 0.532 | -1.5 |
| Rxn #07 | FTL Plate 1 | F10 | 50 | 0.543 | 0.0597 | 0.532 | -2.3 |
| Rxn #07 | FTL Plate 1 | G10 | 50 | 0.510 | 0.0597 | 0.532 | 4.7 |
| Rxn #07 | FTL Plate 1 | H10: FOC | - | 0.517 | 0.0597 | 0.532 | 3.2 |
| Rxn #07 | FTL Plate 1 | A11: NFC | - | 0.058 | 0.0597 | 0.532 | 100.4 |
| Rxn #07 | FTL Plate 1 | B11 | 50 | 0.527 | 0.0597 | 0.532 | 1.1 |
| Rxn #07 | FTL Plate 1 | C11 | 50 | 0.555 | 0.0597 | 0.532 | -4.9 |
| Rxn #07 | FTL Plate 1 | D11 | 50 | 0.575 | 0.0597 | 0.532 | -9.1 |
| Rxn #07 | FTL Plate 1 | E11 | 50 | 0.571 | 0.0597 | 0.532 | -8.3 |
| Rxn #07 | FTL Plate 1 | F11 | 50 | 0.545 | 0.0597 | 0.532 | -2.8 |
| Rxn #07 | FTL Plate 1 | G11 | 50 | 0.533 | 0.0597 | 0.532 | -0.2 |
| Rxn #07 | FTL Plate 1 | H11: FOC | - | 0.539 | 0.0597 | 0.532 | -1.5 |
| Rxn #07 | FTL Plate 1 | A12: NFC | - | 0.064 | 0.0597 | 0.532 | 99.1 |
| Rxn #07 | FTL Plate 1 | H12: FOC | - | 0.527 | 0.0597 | 0.532 | 1.1 |
| Rxn #08 | FTL Plate 13 | A1: NFC | - | 0.056 | 0.0487 | 0.505 | 98.4 |
| Rxn #08 | FTL Plate 13 | B1 | 50 | 0.495 | 0.0487 | 0.505 | 2.2 |
| Rxn #08 | FTL Plate 13 | C1 | 50 | 0.477 | 0.0487 | 0.505 | 6.1 |
| Rxn #08 | FTL Plate 13 | D1 | 50 | 0.495 | 0.0487 | 0.505 | 2.2 |
| Rxn #08 | FTL Plate 13 | E1 | 50 | 0.479 | 0.0487 | 0.505 | 5.7 |
| Rxn #08 | FTL Plate 13 | F1 | 50 | 0.480 | 0.0487 | 0.505 | 5.5 |
| Rxn #08 | FTL Plate 13 | G1 | 50 | 0.471 | 0.0487 | 0.505 | 7.5 |
| Rxn #08 | FTL Plate 13 | H1: FOC | - | 0.493 | 0.0487 | 0.505 | 2.6 |
| Rxn #08 | FTL Plate 13 | A2: NFC | - | 0.062 | 0.0487 | 0.505 | 97.1 |
| Rxn #08 | FTL Plate 13 | B2 | 50 | 0.507 | 0.0487 | 0.505 | -0.4 |
| Rxn #08 | FTL Plate 13 | C2 | 50 | 0.526 | 0.0487 | 0.505 | -4.6 |
| Rxn #08 | FTL Plate 13 | D2 | 50 | 0.500 | 0.0487 | 0.505 | 1.1 |
| Rxn #08 | FTL Plate 13 | E2 | 50 | 0.516 | 0.0487 | 0.505 | -2.4 |
| Rxn #08 | FTL Plate 13 | F2 | 50 | 0.507 | 0.0487 | 0.505 | -0.4 |
| Rxn #08 | FTL Plate 13 | G2 | 50 | 0.498 | 0.0487 | 0.505 | 1.5 |
| Rxn #08 | FTL Plate 13 | H2: FOC | - | 0.512 | 0.0487 | 0.505 | -1.5 |
| Rxn #08 | FTL Plate 13 | A3: NFC | - | 0.044 | 0.0487 | 0.505 | 101.0 |
| Rxn #08 | FTL Plate 13 | B3 | 50 | 0.509 | 0.0487 | 0.505 | -0.9 |
| Rxn #08 | FTL Plate 13 | C3 | 50 | 0.528 | 0.0487 | 0.505 | -5.0 |
| Rxn #08 | FTL Plate 13 | D3 | 50 | 0.516 | 0.0487 | 0.505 | -2.4 |
| Rxn #08 | FTL Plate 13 | E3 | 50 | 0.488 | 0.0487 | 0.505 | 3.7 |
| Rxn #08 | FTL Plate 13 | F3 | 50 | 0.498 | 0.0487 | 0.505 | 1.5 |
| Rxn #08 | FTL Plate 13 | G3 | 50 | 0.501 | 0.0487 | 0.505 | 0.9 |
| Rxn #08 | FTL Plate 13 | H3: FOC | - | 0.506 | 0.0487 | 0.505 | -0.2 |
| Rxn #08 | FTL Plate 13 | A4: NFC | - | 0.047 | 0.0487 | 0.505 | 100.4 |
| Rxn #08 | FTL Plate 13 | B4 | 50 | 0.505 | 0.0487 | 0.505 | 0.0 |
| Rxn #08 | FTL Plate 13 | C4 | 50 | 0.501 | 0.0487 | 0.505 | 0.9 |
| Rxn #08 | FTL Plate 13 | D4 | 50 | 0.513 | 0.0487 | 0.505 | -1.8 |
| Rxn #08 | FTL Plate 13 | E4 | 50 | 0.460 | 0.0487 | 0.505 | 9.9 |
| Rxn #08 | FTL Plate 13 | F4 | 50 | 0.490 | 0.0487 | 0.505 | 3.3 |
| Rxn #08 | FTL Plate 13 | G4 | 50 | 0.463 | 0.0487 | 0.505 | 9.2 |
| Rxn #08 | FTL Plate 13 | H4: FOC | - | 0.509 | 0.0487 | 0.505 | -0.9 |
| Rxn #08 | FTL Plate 13 | A5: NFC | - | 0.053 | 0.0487 | 0.505 | 99.1 |
| Rxn #08 | FTL Plate 13 | B5: NFC | - | 0.041 | 0.0487 | 0.505 | 101.7 |
| Rxn #08 | FTL Plate 13 | C5: NFC | - | 0.038 | 0.0487 | 0.505 | 102.3 |
| Rxn #08 | FTL Plate 13 | D5: NFC | - | 0.036 | 0.0487 | 0.505 | 102.8 |
| Rxn #08 | FTL Plate 13 | E5: FOC | - | 0.507 | 0.0487 | 0.505 | -0.4 |
| Rxn #08 | FTL Plate 13 | F5: FOC | - | 0.496 | 0.0487 | 0.505 | 2.0 |
| Rxn #08 | FTL Plate 13 | G5: FOC | - | 0.500 | 0.0487 | 0.505 | 1.1 |
| Rxn #08 | FTL Plate 13 | H5: FOC | - | 0.508 | 0.0487 | 0.505 | -0.7 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #08 | FTL Plate 13 | A6: NFC | - | 0.046 | 0.0487 | 0.505 | 100.6 |
| Rxn #08 | FTL Plate 13 | B6 | 50 | 0.524 | 0.0487 | 0.505 | -4.2 |
| Rxn #08 | FTL Plate 13 | C6 | 50 | 0.512 | 0.0487 | 0.505 | -1.5 |
| Rxn #08 | FTL Plate 13 | D6 | 50 | 0.500 | 0.0487 | 0.505 | 1.1 |
| Rxn #08 | FTL Plate 13 | E6 | 50 | 0.505 | 0.0487 | 0.505 | 0.0 |
| Rxn #08 | FTL Plate 13 | F6 | 50 | 0.481 | 0.0487 | 0.505 | 5.3 |
| Rxn #08 | FTL Plate 13 | G6 | 50 | 0.516 | 0.0487 | 0.505 | -2.4 |
| Rxn #08 | FTL Plate 13 | H6: FOC | - | 0.505 | 0.0487 | 0.505 | 0.0 |
| Rxn #08 | FTL Plate 13 | A7: NFC | - | 0.045 | 0.0487 | 0.505 | 100.8 |
| Rxn #08 | FTL Plate 13 | B7 | 50 | 0.531 | 0.0487 | 0.505 | -5.7 |
| Rxn #08 | FTL Plate 13 | C7 | 50 | 0.512 | 0.0487 | 0.505 | -1.5 |
| Rxn #08 | FTL Plate 13 | D7 | 50 | 0.522 | 0.0487 | 0.505 | -3.7 |
| Rxn #08 | FTL Plate 13 | E7 | 50 | 0.528 | 0.0487 | 0.505 | -5.0 |
| Rxn #08 | FTL Plate 13 | F7 | 50 | 0.519 | 0.0487 | 0.505 | -3.1 |
| Rxn #08 | FTL Plate 13 | G7 | 50 | 0.510 | 0.0487 | 0.505 | -1.1 |
| Rxn #08 | FTL Plate 13 | H7: FOC | - | 0.502 | 0.0487 | 0.505 | 0.7 |
| Rxn #08 | FTL Plate 13 | A8: NFC | - | 0.048 | 0.0487 | 0.505 | 100.2 |
| Rxn #08 | FTL Plate 13 | B8 | 50 | 0.497 | 0.0487 | 0.505 | 1.8 |
| Rxn #08 | FTL Plate 13 | C8 | 50 | 0.509 | 0.0487 | 0.505 | -0.9 |
| Rxn #08 | FTL Plate 13 | D8 | 50 | 0.510 | 0.0487 | 0.505 | -1.1 |
| Rxn #08 | FTL Plate 13 | E8 | 50 | 0.508 | 0.0487 | 0.505 | -0.7 |
| Rxn #08 | FTL Plate 13 | F8 | 50 | 0.520 | 0.0487 | 0.505 | -3.3 |
| Rxn #08 | FTL Plate 13 | G8 | 50 | 0.520 | 0.0487 | 0.505 | -3.3 |
| Rxn #08 | FTL Plate 13 | H8: FOC | - | 0.502 | 0.0487 | 0.505 | 0.7 |
| Rxn #08 | FTL Plate 13 | A9: NFC | - | 0.059 | 0.0487 | 0.505 | 97.7 |
| Rxn #08 | FTL Plate 13 | B9 | 50 | 0.518 | 0.0487 | 0.505 | -2.8 |
| Rxn #08 | FTL Plate 13 | C9 | 50 | 0.495 | 0.0487 | 0.505 | 2.2 |
| Rxn #08 | FTL Plate 13 | D9 | 50 | 0.473 | 0.0487 | 0.505 | 7.0 |
| Rxn #08 | FTL Plate 13 | E9 | 50 | 0.510 | 0.0487 | 0.505 | -1.1 |
| Rxn #08 | FTL Plate 13 | F9 | 50 | 0.462 | 0.0487 | 0.505 | 9.4 |
| Rxn #08 | FTL Plate 13 | G9 | 50 | 0.512 | 0.0487 | 0.505 | -1.5 |
| Rxn #08 | FTL Plate 13 | H9: FOC | - | 0.515 | 0.0487 | 0.505 | -2.2 |
| Rxn #08 | FTL Plate 13 | A10: NFC | - | 0.051 | 0.0487 | 0.505 | 99.5 |
| Rxn #08 | FTL Plate 13 | B10 | 50 | 0.505 | 0.0487 | 0.505 | 0.0 |
| Rxn #08 | FTL Plate 13 | C10 | 50 | 0.499 | 0.0487 | 0.505 | 1.3 |
| Rxn #08 | FTL Plate 13 | D10 | 50 | 0.490 | 0.0487 | 0.505 | 3.3 |
| Rxn #08 | FTL Plate 13 | E10 | 50 | 0.471 | 0.0487 | 0.505 | 7.5 |
| Rxn #08 | FTL Plate 13 | F10 | 50 | 0.508 | 0.0487 | 0.505 | -0.7 |
| Rxn #08 | FTL Plate 13 | G10 | 50 | 0.481 | 0.0487 | 0.505 | 5.3 |
| Rxn #08 | FTL Plate 13 | H10: FOC | - | 0.507 | 0.0487 | 0.505 | -0.4 |
| Rxn #08 | FTL Plate 13 | A11: NFC | - | 0.048 | 0.0487 | 0.505 | 100.2 |
| Rxn #08 | FTL Plate 13 | B11 | 50 | 0.503 | 0.0487 | 0.505 | 0.4 |
| Rxn #08 | FTL Plate 13 | C11 | 50 | 0.509 | 0.0487 | 0.505 | -0.9 |
| Rxn #08 | FTL Plate 13 | D11 | 50 | 0.497 | 0.0487 | 0.505 | 1.8 |
| Rxn #08 | FTL Plate 13 | E11 | 50 | 0.501 | 0.0487 | 0.505 | 0.9 |
| Rxn #08 | FTL Plate 13 | F11 | 50 | 0.491 | 0.0487 | 0.505 | 3.1 |
| Rxn #08 | FTL Plate 13 | G11 | 50 | 0.477 | 0.0487 | 0.505 | 6.1 |
| Rxn #08 | FTL Plate 13 | H11: FOC | - | 0.502 | 0.0487 | 0.505 | 0.7 |
| Rxn #08 | FTL Plate 13 | A12: NFC | - | 0.056 | 0.0487 | 0.505 | 98.4 |
| Rxn #08 | FTL Plate 13 | H12: FOC | - | 0.506 | 0.0487 | 0.505 | -0.2 |
| Rxn #09 | FTL Plate 14 | A1: NFC | - | 0.045 | 0.0423 | 0.479 | 99.4 |
| Rxn #09 | FTL Plate 14 | B1 | 50 | 0.493 | 0.0423 | 0.479 | -3.2 |
| Rxn #09 | FTL Plate 14 | C1 | 50 | 0.478 | 0.0423 | 0.479 | 0.2 |
| Rxn #09 | FTL Plate 14 | D1 | 50 | 0.500 | 0.0423 | 0.479 | -4.8 |
| Rxn #09 | FTL Plate 14 | E1 | 50 | 0.495 | 0.0423 | 0.479 | -3.7 |
| Rxn #09 | FTL Plate 14 | F1 | 50 | 0.473 | 0.0423 | 0.479 | 1.4 |
| Rxn #09 | FTL Plate 14 | G1 | 50 | 0.498 | 0.0423 | 0.479 | -4.4 |
| Rxn #09 | FTL Plate 14 | H1: FOC | - | 0.437 | 0.0423 | 0.479 | 9.6 |
| Rxn #09 | FTL Plate 14 | A2: NFC | - | 0.039 | 0.0423 | 0.479 | 100.8 |
| Rxn #09 | FTL Plate 14 | B2 | 50 | 0.550 | 0.0423 | 0.479 | -16.3 |
| Rxn #09 | FTL Plate 14 | C2 | 50 | 0.535 | 0.0423 | 0.479 | -12.8 |
| Rxn #09 | FTL Plate 14 | D2 | 50 | 0.500 | 0.0423 | 0.479 | -4.8 |
| Rxn #09 | FTL Plate 14 | E2 | 50 | 0.519 | 0.0423 | 0.479 | -9.2 |
| Rxn #09 | FTL Plate 14 | F2 | 50 | 0.513 | 0.0423 | 0.479 | -7.8 |
| Rxn #09 | FTL Plate 14 | G2 | 50 | 0.491 | 0.0423 | 0.479 | -2.7 |
| Rxn #09 | FTL Plate 14 | H2: FOC | - | 0.462 | 0.0423 | 0.479 | 3.9 |
| Rxn #09 | FTL Plate 14 | A3: NFC | - | 0.039 | 0.0423 | 0.479 | 100.8 |
| Rxn #09 | FTL Plate 14 | B3 | 50 | 0.504 | 0.0423 | 0.479 | -5.7 |
| Rxn #09 | FTL Plate 14 | C3 | 50 | 0.520 | 0.0423 | 0.479 | -9.4 |
| Rxn #09 | FTL Plate 14 | D3 | 50 | 0.530 | 0.0423 | 0.479 | -11.7 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #09 | FTL Plate 14 | E3 | 50 | 0.501 | 0.0423 | 0.479 | -5.0 |
| Rxn #09 | FTL Plate 14 | F3 | 50 | 0.512 | 0.0423 | 0.479 | -7.6 |
| Rxn #09 | FTL Plate 14 | G3 | 50 | 0.518 | 0.0423 | 0.479 | -8.9 |
| Rxn #09 | FTL Plate 14 | H3: FOC | - | 0.474 | 0.0423 | 0.479 | 1.1 |
| Rxn #09 | FTL Plate 14 | A4: NFC | - | 0.041 | 0.0423 | 0.479 | 100.3 |
| Rxn #09 | FTL Plate 14 | B4 | 50 | 0.534 | 0.0423 | 0.479 | -12.6 |
| Rxn #09 | FTL Plate 14 | C4 | 50 | 0.526 | 0.0423 | 0.479 | -10.8 |
| Rxn #09 | FTL Plate 14 | D4 | 50 | 0.512 | 0.0423 | 0.479 | -7.6 |
| Rxn #09 | FTL Plate 14 | E4 | 50 | 0.501 | 0.0423 | 0.479 | -5.0 |
| Rxn #09 | FTL Plate 14 | F4 | 50 | 0.515 | 0.0423 | 0.479 | -8.2 |
| Rxn #09 | FTL Plate 14 | G4 | 50 | 0.496 | 0.0423 | 0.479 | -3.9 |
| Rxn #09 | FTL Plate 14 | H4: FOC | - | 0.459 | 0.0423 | 0.479 | 4.6 |
| Rxn #09 | FTL Plate 14 | A5: NFC | - | 0.046 | 0.0423 | 0.479 | 99.2 |
| Rxn #09 | FTL Plate 14 | B5: NFC | - | 0.037 | 0.0423 | 0.479 | 101.2 |
| Rxn #09 | FTL Plate 14 | C5: NFC | - | 0.039 | 0.0423 | 0.479 | 100.8 |
| Rxn #09 | FTL Plate 14 | D5: NFC | - | 0.037 | 0.0423 | 0.479 | 101.2 |
| Rxn #09 | FTL Plate 14 | E5: FOC | - | 0.526 | 0.0423 | 0.479 | -10.8 |
| Rxn #09 | FTL Plate 14 | F5: FOC | - | 0.513 | 0.0423 | 0.479 | -7.8 |
| Rxn #09 | FTL Plate 14 | G5: FOC | - | 0.512 | 0.0423 | 0.479 | -7.6 |
| Rxn #09 | FTL Plate 14 | H5: FOC | - | 0.467 | 0.0423 | 0.479 | 2.7 |
| Rxn #09 | FTL Plate 14 | A6: NFC | - | 0.040 | 0.0423 | 0.479 | 100.5 |
| Rxn #09 | FTL Plate 14 | B6 | 50 | 0.531 | 0.0423 | 0.479 | -11.9 |
| Rxn #09 | FTL Plate 14 | C6 | 50 | 0.504 | 0.0423 | 0.479 | -5.7 |
| Rxn #09 | FTL Plate 14 | D6 | 50 | 0.525 | 0.0423 | 0.479 | -10.5 |
| Rxn #09 | FTL Plate 14 | E6 | 50 | 0.517 | 0.0423 | 0.479 | -8.7 |
| Rxn #09 | FTL Plate 14 | F6 | 50 | 0.505 | 0.0423 | 0.479 | -6.0 |
| Rxn #09 | FTL Plate 14 | G6 | 50 | 0.526 | 0.0423 | 0.479 | -10.8 |
| Rxn #09 | FTL Plate 14 | H6: FOC | - | 0.472 | 0.0423 | 0.479 | 1.6 |
| Rxn #09 | FTL Plate 14 | A7: NFC | - | 0.041 | 0.0423 | 0.479 | 100.3 |
| Rxn #09 | FTL Plate 14 | B7 | 50 | 0.530 | 0.0423 | 0.479 | -11.7 |
| Rxn #09 | FTL Plate 14 | C7 | 50 | 0.535 | 0.0423 | 0.479 | -12.8 |
| Rxn #09 | FTL Plate 14 | D7 | 50 | 0.487 | 0.0423 | 0.479 | -1.8 |
| Rxn #09 | FTL Plate 14 | E7 | 50 | 0.489 | 0.0423 | 0.479 | -2.3 |
| Rxn #09 | FTL Plate 14 | F7 | 50 | 0.528 | 0.0423 | 0.479 | -11.2 |
| Rxn #09 | FTL Plate 14 | G7 | 50 | 0.489 | 0.0423 | 0.479 | -2.3 |
| Rxn #09 | FTL Plate 14 | H7: FOC | - | 0.484 | 0.0423 | 0.479 | -1.1 |
| Rxn #09 | FTL Plate 14 | A8: NFC | - | 0.038 | 0.0423 | 0.479 | 101.0 |
| Rxn #09 | FTL Plate 14 | B8 | 50 | 0.517 | 0.0423 | 0.479 | -8.7 |
| Rxn #09 | FTL Plate 14 | C8 | 50 | 0.527 | 0.0423 | 0.479 | -11.0 |
| Rxn #09 | FTL Plate 14 | D8 | 50 | 0.528 | 0.0423 | 0.479 | -11.2 |
| Rxn #09 | FTL Plate 14 | E8 | 50 | 0.509 | 0.0423 | 0.479 | -6.9 |
| Rxn #09 | FTL Plate 14 | F8 | 50 | 0.524 | 0.0423 | 0.479 | -10.3 |
| Rxn #09 | FTL Plate 14 | G8 | 50 | 0.507 | 0.0423 | 0.479 | -6.4 |
| Rxn #09 | FTL Plate 14 | H8: FOC | - | 0.461 | 0.0423 | 0.479 | 4.1 |
| Rxn #09 | FTL Plate 14 | A9: NFC | - | 0.046 | 0.0423 | 0.479 | 99.2 |
| Rxn #09 | FTL Plate 14 | B9 | 50 | 0.543 | 0.0423 | 0.479 | -14.7 |
| Rxn #09 | FTL Plate 14 | C9 | 50 | 0.507 | 0.0423 | 0.479 | -6.4 |
| Rxn #09 | FTL Plate 14 | D9 | 50 | 0.538 | 0.0423 | 0.479 | -13.5 |
| Rxn #09 | FTL Plate 14 | E9 | 50 | 0.542 | 0.0423 | 0.479 | -14.4 |
| Rxn #09 | FTL Plate 14 | F9 | 50 | 0.512 | 0.0423 | 0.479 | -7.6 |
| Rxn #09 | FTL Plate 14 | G9 | 50 | 0.521 | 0.0423 | 0.479 | -9.6 |
| Rxn #09 | FTL Plate 14 | H9: FOC | - | 0.496 | 0.0423 | 0.479 | -3.9 |
| Rxn #09 | FTL Plate 14 | A10: NFC | - | 0.047 | 0.0423 | 0.479 | 98.9 |
| Rxn #09 | FTL Plate 14 | B10 | 50 | 0.532 | 0.0423 | 0.479 | -12.1 |
| Rxn #09 | FTL Plate 14 | C10 | 50 | 0.544 | 0.0423 | 0.479 | -14.9 |
| Rxn #09 | FTL Plate 14 | D10 | 50 | 0.502 | 0.0423 | 0.479 | -5.3 |
| Rxn #09 | FTL Plate 14 | E10 | 50 | 0.507 | 0.0423 | 0.479 | -6.4 |
| Rxn #09 | FTL Plate 14 | F10 | 50 | 0.515 | 0.0423 | 0.479 | -8.2 |
| Rxn #09 | FTL Plate 14 | G10 | 50 | 0.507 | 0.0423 | 0.479 | -6.4 |
| Rxn #09 | FTL Plate 14 | H10: FOC | - | 0.473 | 0.0423 | 0.479 | 1.4 |
| Rxn #09 | FTL Plate 14 | A11: NFC | - | 0.049 | 0.0423 | 0.479 | 98.5 |
| Rxn #09 | FTL Plate 14 | B11 | 50 | 0.513 | 0.0423 | 0.479 | -7.8 |
| Rxn #09 | FTL Plate 14 | C11 | 50 | 0.531 | 0.0423 | 0.479 | -11.9 |
| Rxn #09 | FTL Plate 14 | D11 | 50 | 0.539 | 0.0423 | 0.479 | -13.7 |
| Rxn #09 | FTL Plate 14 | E11 | 50 | 0.493 | 0.0423 | 0.479 | -3.2 |
| Rxn #09 | FTL Plate 14 | F11 | 50 | 0.523 | 0.0423 | 0.479 | -10.1 |
| Rxn #09 | FTL Plate 14 | G11 | 50 | 0.529 | 0.0423 | 0.479 | -11.4 |
| Rxn #09 | FTL Plate 14 | H11: FOC | - | 0.467 | 0.0423 | 0.479 | 2.7 |
| Rxn #09 | FTL Plate 14 | A12: NFC | - | 0.050 | 0.0423 | 0.479 | 98.2 |
| Rxn #09 | FTL Plate 14 | H12: FOC | - | 0.480 | 0.0423 | 0.479 | -0.2 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|---------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #10 | FTL Plate 15 | A1: NFC | - | 0.043 | 0.0350 | 0.469 | 98.2 |
| Rxn #10 | FTL Plate 15 | B1 | 50 | 0.454 | 0.0350 | 0.469 | 3.5 |
| Rxn #10 | FTL Plate 15 | C1 | 50 | 0.448 | 0.0350 | 0.469 | 4.8 |
| Rxn #10 | FTL Plate 15 | D1 | 50 | 0.473 | 0.0350 | 0.469 | -0.9 |
| Rxn #10 | FTL Plate 15 | E1 | 50 | 0.495 | 0.0350 | 0.469 | -6.0 |
| Rxn #10 | FTL Plate 15 | F1 | 50 | 0.466 | 0.0350 | 0.469 | 0.7 |
| Rxn #10 | FTL Plate 15 | G1 | 50 | 0.509 | 0.0350 | 0.469 | -9.2 |
| Rxn #10 | FTL Plate 15 | H1: FOC | - | 0.473 | 0.0350 | 0.469 | -0.9 |
| Rxn #10 | FTL Plate 15 | A2: NFC | - | 0.034 | 0.0350 | 0.469 | 100.2 |
| Rxn #10 | FTL Plate 15 | B2 | 50 | 0.477 | 0.0350 | 0.469 | -1.8 |
| Rxn #10 | FTL Plate 15 | C2 | 50 | 0.463 | 0.0350 | 0.469 | 1.4 |
| Rxn #10 | FTL Plate 15 | D2 | 50 | 0.436 | 0.0350 | 0.469 | 7.6 |
| Rxn #10 | FTL Plate 15 | E2 | 50 | 0.424 | 0.0350 | 0.469 | 10.4 |
| Rxn #10 | FTL Plate 15 | F2 | 50 | 0.472 | 0.0350 | 0.469 | -0.7 |
| Rxn #10 | FTL Plate 15 | G2 | 50 | 0.458 | 0.0350 | 0.469 | 2.5 |
| Rxn #10 | FTL Plate 15 | H2: FOC | - | 0.471 | 0.0350 | 0.469 | -0.5 |
| Rxn #10 | FTL Plate 15 | A3: NFC | - | 0.039 | 0.0350 | 0.469 | 99.1 |
| Rxn #10 | FTL Plate 15 | B3 | 50 | 0.449 | 0.0350 | 0.469 | 4.6 |
| Rxn #10 | FTL Plate 15 | C3 | 50 | 0.435 | 0.0350 | 0.469 | 7.8 |
| Rxn #10 | FTL Plate 15 | D3 | 50 | 0.487 | 0.0350 | 0.469 | -4.1 |
| Rxn #10 | FTL Plate 15 | E3 | 50 | 0.456 | 0.0350 | 0.469 | 3.0 |
| Rxn #10 | FTL Plate 15 | F3 | 50 | 0.484 | 0.0350 | 0.469 | -3.5 |
| Rxn #10 | FTL Plate 15 | G3 | 50 | 0.421 | 0.0350 | 0.469 | 11.1 |
| Rxn #10 | FTL Plate 15 | H3: FOC | - | 0.474 | 0.0350 | 0.469 | -1.2 |
| Rxn #10 | FTL Plate 15 | A4: NFC | - | 0.034 | 0.0350 | 0.469 | 100.2 |
| Rxn #10 | FTL Plate 15 | B4 | 50 | 0.463 | 0.0350 | 0.469 | 1.4 |
| Rxn #10 | FTL Plate 15 | C4 | 50 | 0.416 | 0.0350 | 0.469 | 12.2 |
| Rxn #10 | FTL Plate 15 | D4 | 50 | 0.454 | 0.0350 | 0.469 | 3.5 |
| Rxn #10 | FTL Plate 15 | E4 | 50 | 0.459 | 0.0350 | 0.469 | 2.3 |
| Rxn #10 | FTL Plate 15 | F4 | 50 | 0.452 | 0.0350 | 0.469 | 3.9 |
| Rxn #10 | FTL Plate 15 | G4 | 50 | 0.406 | 0.0350 | 0.469 | 14.5 |
| Rxn #10 | FTL Plate 15 | H4: FOC | - | 0.509 | 0.0350 | 0.469 | -9.2 |
| Rxn #10 | FTL Plate 15 | A5: NFC | - | 0.031 | 0.0350 | 0.469 | 100.9 |
| Rxn #10 | FTL Plate 15 | B5: NFC | - | 0.034 | 0.0350 | 0.469 | 100.2 |
| Rxn #10 | FTL Plate 15 | C5: NFC | - | 0.030 | 0.0350 | 0.469 | 101.2 |
| Rxn #10 | FTL Plate 15 | D5: NFC | - | 0.035 | 0.0350 | 0.469 | 100.0 |
| Rxn #10 | FTL Plate 15 | E5: FOC | - | 0.467 | 0.0350 | 0.469 | 0.5 |
| Rxn #10 | FTL Plate 15 | F5: FOC | - | 0.470 | 0.0350 | 0.469 | -0.2 |
| Rxn #10 | FTL Plate 15 | G5: FOC | - | 0.469 | 0.0350 | 0.469 | 0.0 |
| Rxn #10 | FTL Plate 15 | H5: FOC | - | 0.462 | 0.0350 | 0.469 | 1.6 |
| Rxn #10 | FTL Plate 15 | A6: NFC | - | 0.035 | 0.0350 | 0.469 | 100.0 |
| Rxn #10 | FTL Plate 15 | B6 | 50 | 0.494 | 0.0350 | 0.469 | -5.8 |
| Rxn #10 | FTL Plate 15 | C6 | 50 | 0.463 | 0.0350 | 0.469 | 1.4 |
| Rxn #10 | FTL Plate 15 | D6 | 50 | 0.458 | 0.0350 | 0.469 | 2.5 |
| Rxn #10 | FTL Plate 15 | E6 | 50 | 0.413 | 0.0350 | 0.469 | 12.9 |
| Rxn #10 | FTL Plate 15 | F6 | 50 | 0.458 | 0.0350 | 0.469 | 2.5 |
| Rxn #10 | FTL Plate 15 | G6 | 50 | 0.462 | 0.0350 | 0.469 | 1.6 |
| Rxn #10 | FTL Plate 15 | H6: FOC | - | 0.450 | 0.0350 | 0.469 | 4.4 |
| Rxn #10 | FTL Plate 15 | A7: NFC | - | 0.034 | 0.0350 | 0.469 | 100.2 |
| Rxn #10 | FTL Plate 15 | B7 | 50 | 0.435 | 0.0350 | 0.469 | 7.8 |
| Rxn #10 | FTL Plate 15 | C7 | 50 | 0.462 | 0.0350 | 0.469 | 1.6 |
| Rxn #10 | FTL Plate 15 | D7 | 50 | 0.454 | 0.0350 | 0.469 | 3.5 |
| Rxn #10 | FTL Plate 15 | E7 | 50 | 0.452 | 0.0350 | 0.469 | 3.9 |
| Rxn #10 | FTL Plate 15 | F7 | 50 | 0.460 | 0.0350 | 0.469 | 2.1 |
| Rxn #10 | FTL Plate 15 | G7 | 50 | 0.455 | 0.0350 | 0.469 | 3.2 |
| Rxn #10 | FTL Plate 15 | H7: FOC | - | 0.437 | 0.0350 | 0.469 | 7.4 |
| Rxn #10 | FTL Plate 15 | A8: NFC | - | 0.036 | 0.0350 | 0.469 | 99.8 |
| Rxn #10 | FTL Plate 15 | B8 | 50 | 0.435 | 0.0350 | 0.469 | 7.8 |
| Rxn #10 | FTL Plate 15 | C8 | 50 | 0.444 | 0.0350 | 0.469 | 5.8 |
| Rxn #10 | FTL Plate 15 | D8 | 50 | 0.412 | 0.0350 | 0.469 | 13.1 |
| Rxn #10 | FTL Plate 15 | E8 | 50 | 0.436 | 0.0350 | 0.469 | 7.6 |
| Rxn #10 | FTL Plate 15 | F8 | 50 | 0.379 | 0.0350 | 0.469 | 20.7 |
| Rxn #10 | FTL Plate 15 | G8 | 50 | 0.418 | 0.0350 | 0.469 | 11.8 |
| Rxn #10 | FTL Plate 15 | H8: FOC | - | 0.445 | 0.0350 | 0.469 | 5.5 |
| Rxn #10 | FTL Plate 15 | A9: NFC | - | 0.031 | 0.0350 | 0.469 | 100.9 |
| Rxn #10 | FTL Plate 15 | B9 | 50 | 0.164 | 0.0350 | 0.469 | 70.3 |
| Rxn #10 | FTL Plate 15 | C9 | 50 | 0.459 | 0.0350 | 0.469 | 2.3 |
| Rxn #10 | FTL Plate 15 | D9 | 50 | 0.476 | 0.0350 | 0.469 | -1.6 |
| Rxn #10 | FTL Plate 15 | E9 | 50 | 0.426 | 0.0350 | 0.469 | 9.9 |
| Rxn #10 | FTL Plate 15 | F9 | 50 | 0.452 | 0.0350 | 0.469 | 3.9 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #10 | FTL Plate 15 | G9 | 50 | 0.469 | 0.0350 | 0.469 | 0.0 |
| Rxn #10 | FTL Plate 15 | H9: FOC | - | 0.476 | 0.0350 | 0.469 | -1.6 |
| Rxn #10 | FTL Plate 15 | A10: NFC | - | 0.037 | 0.0350 | 0.469 | 99.5 |
| Rxn #10 | FTL Plate 15 | B10 | 50 | 0.478 | 0.0350 | 0.469 | -2.1 |
| Rxn #10 | FTL Plate 15 | C10 | 50 | 0.452 | 0.0350 | 0.469 | 3.9 |
| Rxn #10 | FTL Plate 15 | D10 | 50 | 0.451 | 0.0350 | 0.469 | 4.1 |
| Rxn #10 | FTL Plate 15 | E10 | 50 | 0.458 | 0.0350 | 0.469 | 2.5 |
| Rxn #10 | FTL Plate 15 | F10 | 50 | 0.485 | 0.0350 | 0.469 | -3.7 |
| Rxn #10 | FTL Plate 15 | G10 | 50 | 0.469 | 0.0350 | 0.469 | 0.0 |
| Rxn #10 | FTL Plate 15 | H10: FOC | - | 0.471 | 0.0350 | 0.469 | -0.5 |
| Rxn #10 | FTL Plate 15 | A11: NFC | - | 0.034 | 0.0350 | 0.469 | 100.2 |
| Rxn #10 | FTL Plate 15 | B11 | 50 | 0.455 | 0.0350 | 0.469 | 3.2 |
| Rxn #10 | FTL Plate 15 | C11 | 50 | 0.459 | 0.0350 | 0.469 | 2.3 |
| Rxn #10 | FTL Plate 15 | D11 | 50 | 0.505 | 0.0350 | 0.469 | -8.3 |
| Rxn #10 | FTL Plate 15 | E11 | 50 | 0.509 | 0.0350 | 0.469 | -9.2 |
| Rxn #10 | FTL Plate 15 | F11 | 50 | 0.446 | 0.0350 | 0.469 | 5.3 |
| Rxn #10 | FTL Plate 15 | G11 | 50 | 0.464 | 0.0350 | 0.469 | 1.2 |
| Rxn #10 | FTL Plate 15 | H11: FOC | - | 0.472 | 0.0350 | 0.469 | -0.7 |
| Rxn #10 | FTL Plate 15 | A12: NFC | - | 0.038 | 0.0350 | 0.469 | 99.3 |
| Rxn #10 | FTL Plate 15 | H12: FOC | - | 0.492 | 0.0350 | 0.469 | -5.3 |
| Rxn #11 | FTL Plate 2 | A1: NFC | - | 0.057 | 0.0521 | 0.492 | 98.9 |
| Rxn #11 | FTL Plate 2 | B1 | 50 | 0.486 | 0.0521 | 0.492 | 1.4 |
| Rxn #11 | FTL Plate 2 | C1 | 50 | 0.452 | 0.0521 | 0.492 | 9.1 |
| Rxn #11 | FTL Plate 2 | D1 | 50 | 0.476 | 0.0521 | 0.492 | 3.6 |
| Rxn #11 | FTL Plate 2 | E1 | 50 | 0.459 | 0.0521 | 0.492 | 7.5 |
| Rxn #11 | FTL Plate 2 | F1 | 50 | 0.428 | 0.0521 | 0.492 | 14.5 |
| Rxn #11 | FTL Plate 2 | G1 | 50 | 0.356 | 0.0521 | 0.492 | 30.9 |
| Rxn #11 | FTL Plate 2 | H1: FOC | - | 0.465 | 0.0521 | 0.492 | 6.1 |
| Rxn #11 | FTL Plate 2 | A2: NFC | - | 0.062 | 0.0521 | 0.492 | 97.7 |
| Rxn #11 | FTL Plate 2 | B2 | 50 | 0.478 | 0.0521 | 0.492 | 3.2 |
| Rxn #11 | FTL Plate 2 | C2 | 50 | 0.509 | 0.0521 | 0.492 | -3.9 |
| Rxn #11 | FTL Plate 2 | D2 | 50 | 0.466 | 0.0521 | 0.492 | 5.9 |
| Rxn #11 | FTL Plate 2 | E2 | 50 | 0.496 | 0.0521 | 0.492 | -0.9 |
| Rxn #11 | FTL Plate 2 | F2 | 50 | 0.422 | 0.0521 | 0.492 | 15.9 |
| Rxn #11 | FTL Plate 2 | G2 | 50 | 0.479 | 0.0521 | 0.492 | 3.0 |
| Rxn #11 | FTL Plate 2 | H2: FOC | - | 0.494 | 0.0521 | 0.492 | -0.5 |
| Rxn #11 | FTL Plate 2 | A3: NFC | - | 0.062 | 0.0521 | 0.492 | 97.7 |
| Rxn #11 | FTL Plate 2 | B3 | 50 | 0.508 | 0.0521 | 0.492 | -3.6 |
| Rxn #11 | FTL Plate 2 | C3 | 50 | 0.500 | 0.0521 | 0.492 | -1.8 |
| Rxn #11 | FTL Plate 2 | D3 | 50 | 0.462 | 0.0521 | 0.492 | 6.8 |
| Rxn #11 | FTL Plate 2 | E3 | 50 | 0.479 | 0.0521 | 0.492 | 3.0 |
| Rxn #11 | FTL Plate 2 | F3 | 50 | 0.496 | 0.0521 | 0.492 | -0.9 |
| Rxn #11 | FTL Plate 2 | G3 | 50 | 0.504 | 0.0521 | 0.492 | -2.7 |
| Rxn #11 | FTL Plate 2 | H3: FOC | - | 0.492 | 0.0521 | 0.492 | 0.0 |
| Rxn #11 | FTL Plate 2 | A4: NFC | - | 0.051 | 0.0521 | 0.492 | 100.3 |
| Rxn #11 | FTL Plate 2 | B4 | 50 | 0.500 | 0.0521 | 0.492 | -1.8 |
| Rxn #11 | FTL Plate 2 | C4 | 50 | 0.522 | 0.0521 | 0.492 | -6.8 |
| Rxn #11 | FTL Plate 2 | D4 | 50 | 0.487 | 0.0521 | 0.492 | 1.1 |
| Rxn #11 | FTL Plate 2 | E4 | 50 | 0.477 | 0.0521 | 0.492 | 3.4 |
| Rxn #11 | FTL Plate 2 | F4 | 50 | 0.484 | 0.0521 | 0.492 | 1.8 |
| Rxn #11 | FTL Plate 2 | G4 | 50 | 0.502 | 0.0521 | 0.492 | -2.3 |
| Rxn #11 | FTL Plate 2 | H4: FOC | - | 0.484 | 0.0521 | 0.492 | 1.8 |
| Rxn #11 | FTL Plate 2 | A5: NFC | - | 0.054 | 0.0521 | 0.492 | 99.6 |
| Rxn #11 | FTL Plate 2 | B5: NFC | - | 0.047 | 0.0521 | 0.492 | 101.2 |
| Rxn #11 | FTL Plate 2 | C5: NFC | - | 0.039 | 0.0521 | 0.492 | 103.0 |
| Rxn #11 | FTL Plate 2 | D5: NFC | - | 0.037 | 0.0521 | 0.492 | 103.4 |
| Rxn #11 | FTL Plate 2 | E5: FOC | - | 0.510 | 0.0521 | 0.492 | -4.1 |
| Rxn #11 | FTL Plate 2 | F5: FOC | - | 0.489 | 0.0521 | 0.492 | 0.7 |
| Rxn #11 | FTL Plate 2 | G5: FOC | - | 0.513 | 0.0521 | 0.492 | -4.8 |
| Rxn #11 | FTL Plate 2 | H5: FOC | - | 0.498 | 0.0521 | 0.492 | -1.4 |
| Rxn #11 | FTL Plate 2 | A6: NFC | - | 0.065 | 0.0521 | 0.492 | 97.1 |
| Rxn #11 | FTL Plate 2 | B6 | 50 | 0.426 | 0.0521 | 0.492 | 15.0 |
| Rxn #11 | FTL Plate 2 | C6 | 50 | 0.504 | 0.0521 | 0.492 | -2.7 |
| Rxn #11 | FTL Plate 2 | D6 | 50 | 0.525 | 0.0521 | 0.492 | -7.5 |
| Rxn #11 | FTL Plate 2 | E6 | 50 | 0.504 | 0.0521 | 0.492 | -2.7 |
| Rxn #11 | FTL Plate 2 | F6 | 50 | 0.497 | 0.0521 | 0.492 | -1.1 |
| Rxn #11 | FTL Plate 2 | G6 | 50 | 0.507 | 0.0521 | 0.492 | -3.4 |
| Rxn #11 | FTL Plate 2 | H6: FOC | - | 0.512 | 0.0521 | 0.492 | -4.5 |
| Rxn #11 | FTL Plate 2 | A7: NFC | - | 0.055 | 0.0521 | 0.492 | 99.3 |
| Rxn #11 | FTL Plate 2 | B7 | 50 | 0.533 | 0.0521 | 0.492 | -9.3 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #11 | FTL Plate 2 | C7 | 50 | 0.513 | 0.0521 | 0.492 | -4.8 |
| Rxn #11 | FTL Plate 2 | D7 | 50 | 0.515 | 0.0521 | 0.492 | -5.2 |
| Rxn #11 | FTL Plate 2 | E7 | 50 | 0.517 | 0.0521 | 0.492 | -5.7 |
| Rxn #11 | FTL Plate 2 | F7 | 50 | 0.523 | 0.0521 | 0.492 | -7.0 |
| Rxn #11 | FTL Plate 2 | G7 | 50 | 0.483 | 0.0521 | 0.492 | 2.0 |
| Rxn #11 | FTL Plate 2 | H7: FOC | - | 0.494 | 0.0521 | 0.492 | -0.5 |
| Rxn #11 | FTL Plate 2 | A8: NFC | - | 0.057 | 0.0521 | 0.492 | 98.9 |
| Rxn #11 | FTL Plate 2 | B8 | 50 | 0.493 | 0.0521 | 0.492 | -0.2 |
| Rxn #11 | FTL Plate 2 | C8 | 50 | 0.474 | 0.0521 | 0.492 | 4.1 |
| Rxn #11 | FTL Plate 2 | D8 | 50 | 0.514 | 0.0521 | 0.492 | -5.0 |
| Rxn #11 | FTL Plate 2 | E8 | 50 | 0.505 | 0.0521 | 0.492 | -3.0 |
| Rxn #11 | FTL Plate 2 | F8 | 50 | 0.481 | 0.0521 | 0.492 | 2.5 |
| Rxn #11 | FTL Plate 2 | G8 | 50 | 0.479 | 0.0521 | 0.492 | 3.0 |
| Rxn #11 | FTL Plate 2 | H8: FOC | - | 0.493 | 0.0521 | 0.492 | -0.2 |
| Rxn #11 | FTL Plate 2 | A9: NFC | - | 0.046 | 0.0521 | 0.492 | 101.4 |
| Rxn #11 | FTL Plate 2 | B9 | 50 | 0.495 | 0.0521 | 0.492 | -0.7 |
| Rxn #11 | FTL Plate 2 | C9 | 50 | 0.503 | 0.0521 | 0.492 | -2.5 |
| Rxn #11 | FTL Plate 2 | D9 | 50 | 0.551 | 0.0521 | 0.492 | -13.4 |
| Rxn #11 | FTL Plate 2 | E9 | 50 | 0.506 | 0.0521 | 0.492 | -3.2 |
| Rxn #11 | FTL Plate 2 | F9 | 50 | 0.554 | 0.0521 | 0.492 | -14.1 |
| Rxn #11 | FTL Plate 2 | G9 | 50 | 0.381 | 0.0521 | 0.492 | 25.2 |
| Rxn #11 | FTL Plate 2 | H9: FOC | - | 0.488 | 0.0521 | 0.492 | 0.9 |
| Rxn #11 | FTL Plate 2 | A10: NFC | - | 0.052 | 0.0521 | 0.492 | 100.0 |
| Rxn #11 | FTL Plate 2 | B10 | 50 | 0.512 | 0.0521 | 0.492 | -4.5 |
| Rxn #11 | FTL Plate 2 | C10 | 50 | 0.467 | 0.0521 | 0.492 | 5.7 |
| Rxn #11 | FTL Plate 2 | D10 | 50 | 0.497 | 0.0521 | 0.492 | -1.1 |
| Rxn #11 | FTL Plate 2 | E10 | 50 | 0.499 | 0.0521 | 0.492 | -1.6 |
| Rxn #11 | FTL Plate 2 | F10 | 50 | 0.510 | 0.0521 | 0.492 | -4.1 |
| Rxn #11 | FTL Plate 2 | G10 | 50 | 0.506 | 0.0521 | 0.492 | -3.2 |
| Rxn #11 | FTL Plate 2 | H10: FOC | - | 0.561 | 0.0521 | 0.492 | -15.7 |
| Rxn #11 | FTL Plate 2 | A11: NFC | - | 0.040 | 0.0521 | 0.492 | 102.8 |
| Rxn #11 | FTL Plate 2 | B11 | 50 | 0.505 | 0.0521 | 0.492 | -3.0 |
| Rxn #11 | FTL Plate 2 | C11 | 50 | 0.498 | 0.0521 | 0.492 | -1.4 |
| Rxn #11 | FTL Plate 2 | D11 | 50 | 0.490 | 0.0521 | 0.492 | 0.5 |
| Rxn #11 | FTL Plate 2 | E11 | 50 | 0.506 | 0.0521 | 0.492 | -3.2 |
| Rxn #11 | FTL Plate 2 | F11 | 50 | 0.495 | 0.0521 | 0.492 | -0.7 |
| Rxn #11 | FTL Plate 2 | G11 | 50 | 0.510 | 0.0521 | 0.492 | -4.1 |
| Rxn #11 | FTL Plate 2 | H11: FOC | - | 0.492 | 0.0521 | 0.492 | 0.0 |
| Rxn #11 | FTL Plate 2 | A12: NFC | - | 0.057 | 0.0521 | 0.492 | 98.9 |
| Rxn #11 | FTL Plate 2 | H12: FOC | - | 0.391 | 0.0521 | 0.492 | 23.0 |
| Rxn #12 | FTL Plate 3 | A1: NFC | - | 0.072 | 0.0641 | 0.555 | 98.4 |
| Rxn #12 | FTL Plate 3 | B1 | 50 | 0.339 | 0.0641 | 0.555 | 44.0 |
| Rxn #12 | FTL Plate 3 | C1 | 50 | 0.523 | 0.0641 | 0.555 | 6.5 |
| Rxn #12 | FTL Plate 3 | D1 | 50 | 0.502 | 0.0641 | 0.555 | 10.8 |
| Rxn #12 | FTL Plate 3 | E1 | 50 | 0.533 | 0.0641 | 0.555 | 4.5 |
| Rxn #12 | FTL Plate 3 | F1 | 50 | 0.518 | 0.0641 | 0.555 | 7.5 |
| Rxn #12 | FTL Plate 3 | G1 | 50 | 0.536 | 0.0641 | 0.555 | 3.9 |
| Rxn #12 | FTL Plate 3 | H1: FOC | - | 0.541 | 0.0641 | 0.555 | 2.9 |
| Rxn #12 | FTL Plate 3 | A2: NFC | - | 0.066 | 0.0641 | 0.555 | 99.6 |
| Rxn #12 | FTL Plate 3 | B2 | 50 | 0.568 | 0.0641 | 0.555 | -2.6 |
| Rxn #12 | FTL Plate 3 | C2 | 50 | 0.545 | 0.0641 | 0.555 | 2.0 |
| Rxn #12 | FTL Plate 3 | D2 | 50 | 0.271 | 0.0641 | 0.555 | 57.9 |
| Rxn #12 | FTL Plate 3 | E2 | 50 | 0.549 | 0.0641 | 0.555 | 1.2 |
| Rxn #12 | FTL Plate 3 | F2 | 50 | 0.558 | 0.0641 | 0.555 | -0.6 |
| Rxn #12 | FTL Plate 3 | G2 | 50 | 0.537 | 0.0641 | 0.555 | 3.7 |
| Rxn #12 | FTL Plate 3 | H2: FOC | - | 0.555 | 0.0641 | 0.555 | 0.0 |
| Rxn #12 | FTL Plate 3 | A3: NFC | - | 0.072 | 0.0641 | 0.555 | 98.4 |
| Rxn #12 | FTL Plate 3 | B3 | 50 | 0.551 | 0.0641 | 0.555 | 0.8 |
| Rxn #12 | FTL Plate 3 | C3 | 50 | 0.238 | 0.0641 | 0.555 | 64.6 |
| Rxn #12 | FTL Plate 3 | D3 | 50 | 0.571 | 0.0641 | 0.555 | -3.3 |
| Rxn #12 | FTL Plate 3 | E3 | 50 | 0.563 | 0.0641 | 0.555 | -1.6 |
| Rxn #12 | FTL Plate 3 | F3 | 50 | 0.566 | 0.0641 | 0.555 | -2.2 |
| Rxn #12 | FTL Plate 3 | G3 | 50 | 0.561 | 0.0641 | 0.555 | -1.2 |
| Rxn #12 | FTL Plate 3 | H3: FOC | - | 0.563 | 0.0641 | 0.555 | -1.6 |
| Rxn #12 | FTL Plate 3 | A4: NFC | - | 0.065 | 0.0641 | 0.555 | 99.8 |
| Rxn #12 | FTL Plate 3 | B4 | 50 | 0.580 | 0.0641 | 0.555 | -5.1 |
| Rxn #12 | FTL Plate 3 | C4 | 50 | 0.552 | 0.0641 | 0.555 | 0.6 |
| Rxn #12 | FTL Plate 3 | D4 | 50 | 0.544 | 0.0641 | 0.555 | 2.2 |
| Rxn #12 | FTL Plate 3 | E4 | 50 | 0.556 | 0.0641 | 0.555 | -0.2 |
| Rxn #12 | FTL Plate 3 | F4 | 50 | 0.564 | 0.0641 | 0.555 | -1.8 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #12 | FTL Plate 3 | G4 | 50 | 0.589 | 0.0641 | 0.555 | -6.9 |
| Rxn #12 | FTL Plate 3 | H4: FOC | - | 0.576 | 0.0641 | 0.555 | -4.3 |
| Rxn #12 | FTL Plate 3 | A5: NFC | - | 0.057 | 0.0641 | 0.555 | 101.4 |
| Rxn #12 | FTL Plate 3 | B5: NFC | - | 0.059 | 0.0641 | 0.555 | 101.0 |
| Rxn #12 | FTL Plate 3 | C5: NFC | - | 0.065 | 0.0641 | 0.555 | 99.8 |
| Rxn #12 | FTL Plate 3 | D5: NFC | - | 0.061 | 0.0641 | 0.555 | 100.6 |
| Rxn #12 | FTL Plate 3 | E5: FOC | - | 0.540 | 0.0641 | 0.555 | 3.1 |
| Rxn #12 | FTL Plate 3 | F5: FOC | - | 0.555 | 0.0641 | 0.555 | 0.0 |
| Rxn #12 | FTL Plate 3 | G5: FOC | - | 0.547 | 0.0641 | 0.555 | 1.6 |
| Rxn #12 | FTL Plate 3 | H5: FOC | - | 0.565 | 0.0641 | 0.555 | -2.0 |
| Rxn #12 | FTL Plate 3 | A6: NFC | - | 0.062 | 0.0641 | 0.555 | 100.4 |
| Rxn #12 | FTL Plate 3 | B6 | 50 | 0.583 | 0.0641 | 0.555 | -5.7 |
| Rxn #12 | FTL Plate 3 | C6 | 50 | 0.502 | 0.0641 | 0.555 | 10.8 |
| Rxn #12 | FTL Plate 3 | D6 | 50 | 0.576 | 0.0641 | 0.555 | -4.3 |
| Rxn #12 | FTL Plate 3 | E6 | 50 | 0.575 | 0.0641 | 0.555 | -4.1 |
| Rxn #12 | FTL Plate 3 | F6 | 50 | 0.562 | 0.0641 | 0.555 | -1.4 |
| Rxn #12 | FTL Plate 3 | G6 | 50 | 0.533 | 0.0641 | 0.555 | 4.5 |
| Rxn #12 | FTL Plate 3 | H6: FOC | - | 0.554 | 0.0641 | 0.555 | 0.2 |
| Rxn #12 | FTL Plate 3 | A7: NFC | - | 0.054 | 0.0641 | 0.555 | 102.1 |
| Rxn #12 | FTL Plate 3 | B7 | 50 | 0.549 | 0.0641 | 0.555 | 1.2 |
| Rxn #12 | FTL Plate 3 | C7 | 50 | 0.572 | 0.0641 | 0.555 | -3.5 |
| Rxn #12 | FTL Plate 3 | D7 | 50 | 0.561 | 0.0641 | 0.555 | -1.2 |
| Rxn #12 | FTL Plate 3 | E7 | 50 | 0.579 | 0.0641 | 0.555 | -4.9 |
| Rxn #12 | FTL Plate 3 | F7 | 50 | 0.499 | 0.0641 | 0.555 | 11.4 |
| Rxn #12 | FTL Plate 3 | G7 | 50 | 0.556 | 0.0641 | 0.555 | -0.2 |
| Rxn #12 | FTL Plate 3 | H7: FOC | - | 0.560 | 0.0641 | 0.555 | -1.0 |
| Rxn #12 | FTL Plate 3 | A8: NFC | - | 0.063 | 0.0641 | 0.555 | 100.2 |
| Rxn #12 | FTL Plate 3 | B8 | 50 | 0.565 | 0.0641 | 0.555 | -2.0 |
| Rxn #12 | FTL Plate 3 | C8 | 50 | 0.559 | 0.0641 | 0.555 | -0.8 |
| Rxn #12 | FTL Plate 3 | D8 | 50 | 0.567 | 0.0641 | 0.555 | -2.4 |
| Rxn #12 | FTL Plate 3 | E8 | 50 | 0.540 | 0.0641 | 0.555 | 3.1 |
| Rxn #12 | FTL Plate 3 | F8 | 50 | 0.550 | 0.0641 | 0.555 | 1.0 |
| Rxn #12 | FTL Plate 3 | G8 | 50 | 0.549 | 0.0641 | 0.555 | 1.2 |
| Rxn #12 | FTL Plate 3 | H8: FOC | - | 0.551 | 0.0641 | 0.555 | 0.8 |
| Rxn #12 | FTL Plate 3 | A9: NFC | - | 0.072 | 0.0641 | 0.555 | 98.4 |
| Rxn #12 | FTL Plate 3 | B9 | 50 | 0.525 | 0.0641 | 0.555 | 6.1 |
| Rxn #12 | FTL Plate 3 | C9 | 50 | 0.566 | 0.0641 | 0.555 | -2.2 |
| Rxn #12 | FTL Plate 3 | D9 | 50 | 0.547 | 0.0641 | 0.555 | 1.6 |
| Rxn #12 | FTL Plate 3 | E9 | 50 | 0.553 | 0.0641 | 0.555 | 0.4 |
| Rxn #12 | FTL Plate 3 | F9 | 50 | 0.544 | 0.0641 | 0.555 | 2.2 |
| Rxn #12 | FTL Plate 3 | G9 | 50 | 0.545 | 0.0641 | 0.555 | 2.0 |
| Rxn #12 | FTL Plate 3 | H9: FOC | - | 0.555 | 0.0641 | 0.555 | 0.0 |
| Rxn #12 | FTL Plate 3 | A10: NFC | - | 0.065 | 0.0641 | 0.555 | 99.8 |
| Rxn #12 | FTL Plate 3 | B10 | 50 | 0.552 | 0.0641 | 0.555 | 0.6 |
| Rxn #12 | FTL Plate 3 | C10 | 50 | 0.530 | 0.0641 | 0.555 | 5.1 |
| Rxn #12 | FTL Plate 3 | D10 | 50 | 0.551 | 0.0641 | 0.555 | 0.8 |
| Rxn #12 | FTL Plate 3 | E10 | 50 | 0.546 | 0.0641 | 0.555 | 1.8 |
| Rxn #12 | FTL Plate 3 | F10 | 50 | 0.530 | 0.0641 | 0.555 | 5.1 |
| Rxn #12 | FTL Plate 3 | G10 | 50 | 0.538 | 0.0641 | 0.555 | 3.5 |
| Rxn #12 | FTL Plate 3 | H10: FOC | - | 0.551 | 0.0641 | 0.555 | 0.8 |
| Rxn #12 | FTL Plate 3 | A11: NFC | - | 0.065 | 0.0641 | 0.555 | 99.8 |
| Rxn #12 | FTL Plate 3 | B11 | 50 | 0.525 | 0.0641 | 0.555 | 6.1 |
| Rxn #12 | FTL Plate 3 | C11 | 50 | 0.502 | 0.0641 | 0.555 | 10.8 |
| Rxn #12 | FTL Plate 3 | D11 | 50 | 0.523 | 0.0641 | 0.555 | 6.5 |
| Rxn #12 | FTL Plate 3 | E11 | 50 | 0.532 | 0.0641 | 0.555 | 4.7 |
| Rxn #12 | FTL Plate 3 | F11 | 50 | 0.536 | 0.0641 | 0.555 | 3.9 |
| Rxn #12 | FTL Plate 3 | G11 | 50 | 0.507 | 0.0641 | 0.555 | 9.8 |
| Rxn #12 | FTL Plate 3 | H11: FOC | - | 0.540 | 0.0641 | 0.555 | 3.1 |
| Rxn #12 | FTL Plate 3 | A12: NFC | - | 0.064 | 0.0641 | 0.555 | 100.0 |
| Rxn #12 | FTL Plate 3 | H12: FOC | - | 0.566 | 0.0641 | 0.555 | -2.2 |
| Rxn #13 | FTL Plate 5 | A1: NFC | - | 0.064 | 0.0709 | 0.594 | 101.3 |
| Rxn #13 | FTL Plate 5 | B1 | 50 | 0.609 | 0.0709 | 0.594 | -2.9 |
| Rxn #13 | FTL Plate 5 | C1 | 50 | 0.618 | 0.0709 | 0.594 | -4.6 |
| Rxn #13 | FTL Plate 5 | D1 | 50 | 0.612 | 0.0709 | 0.594 | -3.4 |
| Rxn #13 | FTL Plate 5 | E1 | 50 | 0.579 | 0.0709 | 0.594 | 2.9 |
| Rxn #13 | FTL Plate 5 | F1 | 50 | 0.597 | 0.0709 | 0.594 | -0.6 |
| Rxn #13 | FTL Plate 5 | G1 | 50 | 0.600 | 0.0709 | 0.594 | -1.1 |
| Rxn #13 | FTL Plate 5 | H1: FOC | - | 0.612 | 0.0709 | 0.594 | -3.4 |
| Rxn #13 | FTL Plate 5 | A2: NFC | - | 0.089 | 0.0709 | 0.594 | 96.5 |
| Rxn #13 | FTL Plate 5 | B2 | 50 | 0.610 | 0.0709 | 0.594 | -3.1 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #13 | FTL Plate 5 | C2 | 50 | 0.616 | 0.0709 | 0.594 | -4.2 |
| Rxn #13 | FTL Plate 5 | D2 | 50 | 0.589 | 0.0709 | 0.594 | 1.0 |
| Rxn #13 | FTL Plate 5 | E2 | 50 | 0.596 | 0.0709 | 0.594 | -0.4 |
| Rxn #13 | FTL Plate 5 | F2 | 50 | 0.601 | 0.0709 | 0.594 | -1.3 |
| Rxn #13 | FTL Plate 5 | G2 | 50 | 0.575 | 0.0709 | 0.594 | 3.6 |
| Rxn #13 | FTL Plate 5 | H2: FOC | - | 0.600 | 0.0709 | 0.594 | -1.1 |
| Rxn #13 | FTL Plate 5 | A3: NFC | - | 0.087 | 0.0709 | 0.594 | 96.9 |
| Rxn #13 | FTL Plate 5 | B3 | 50 | 0.615 | 0.0709 | 0.594 | -4.0 |
| Rxn #13 | FTL Plate 5 | C3 | 50 | 0.600 | 0.0709 | 0.594 | -1.1 |
| Rxn #13 | FTL Plate 5 | D3 | 50 | 0.614 | 0.0709 | 0.594 | -3.8 |
| Rxn #13 | FTL Plate 5 | E3 | 50 | 0.598 | 0.0709 | 0.594 | -0.8 |
| Rxn #13 | FTL Plate 5 | F3 | 50 | 0.564 | 0.0709 | 0.594 | 5.7 |
| Rxn #13 | FTL Plate 5 | G3 | 50 | 0.598 | 0.0709 | 0.594 | -0.8 |
| Rxn #13 | FTL Plate 5 | H3: FOC | - | 0.600 | 0.0709 | 0.594 | -1.1 |
| Rxn #13 | FTL Plate 5 | A4: NFC | - | 0.076 | 0.0709 | 0.594 | 99.0 |
| Rxn #13 | FTL Plate 5 | B4 | 50 | 0.648 | 0.0709 | 0.594 | -10.3 |
| Rxn #13 | FTL Plate 5 | C4 | 50 | 0.573 | 0.0709 | 0.594 | 4.0 |
| Rxn #13 | FTL Plate 5 | D4 | 50 | 0.572 | 0.0709 | 0.594 | 4.2 |
| Rxn #13 | FTL Plate 5 | E4 | 50 | 0.604 | 0.0709 | 0.594 | -1.9 |
| Rxn #13 | FTL Plate 5 | F4 | 50 | 0.599 | 0.0709 | 0.594 | -1.0 |
| Rxn #13 | FTL Plate 5 | G4 | 50 | 0.563 | 0.0709 | 0.594 | 5.9 |
| Rxn #13 | FTL Plate 5 | H4: FOC | - | 0.602 | 0.0709 | 0.594 | -1.5 |
| Rxn #13 | FTL Plate 5 | A5: NFC | - | 0.053 | 0.0709 | 0.594 | 103.4 |
| Rxn #13 | FTL Plate 5 | B5: NFC | - | 0.058 | 0.0709 | 0.594 | 102.5 |
| Rxn #13 | FTL Plate 5 | C5: NFC | - | 0.061 | 0.0709 | 0.594 | 101.9 |
| Rxn #13 | FTL Plate 5 | D5: NFC | - | 0.065 | 0.0709 | 0.594 | 101.1 |
| Rxn #13 | FTL Plate 5 | E5: FOC | - | 0.579 | 0.0709 | 0.594 | 2.9 |
| Rxn #13 | FTL Plate 5 | F5: FOC | - | 0.583 | 0.0709 | 0.594 | 2.1 |
| Rxn #13 | FTL Plate 5 | G5: FOC | - | 0.591 | 0.0709 | 0.594 | 0.6 |
| Rxn #13 | FTL Plate 5 | H5: FOC | - | 0.580 | 0.0709 | 0.594 | 2.7 |
| Rxn #13 | FTL Plate 5 | A6: NFC | - | 0.074 | 0.0709 | 0.594 | 99.4 |
| Rxn #13 | FTL Plate 5 | B6 | 50 | 0.615 | 0.0709 | 0.594 | -4.0 |
| Rxn #13 | FTL Plate 5 | C6 | 50 | 0.587 | 0.0709 | 0.594 | 1.3 |
| Rxn #13 | FTL Plate 5 | D6 | 50 | 0.619 | 0.0709 | 0.594 | -4.8 |
| Rxn #13 | FTL Plate 5 | E6 | 50 | 0.496 | 0.0709 | 0.594 | 18.7 |
| Rxn #13 | FTL Plate 5 | F6 | 50 | 0.588 | 0.0709 | 0.594 | 1.1 |
| Rxn #13 | FTL Plate 5 | G6 | 50 | 0.594 | 0.0709 | 0.594 | 0.0 |
| Rxn #13 | FTL Plate 5 | H6: FOC | - | 0.611 | 0.0709 | 0.594 | -3.2 |
| Rxn #13 | FTL Plate 5 | A7: NFC | - | 0.079 | 0.0709 | 0.594 | 98.5 |
| Rxn #13 | FTL Plate 5 | B7 | 50 | 0.602 | 0.0709 | 0.594 | -1.5 |
| Rxn #13 | FTL Plate 5 | C7 | 50 | 0.625 | 0.0709 | 0.594 | -5.9 |
| Rxn #13 | FTL Plate 5 | D7 | 50 | 0.605 | 0.0709 | 0.594 | -2.1 |
| Rxn #13 | FTL Plate 5 | E7 | 50 | 0.576 | 0.0709 | 0.594 | 3.4 |
| Rxn #13 | FTL Plate 5 | F7 | 50 | 0.588 | 0.0709 | 0.594 | 1.1 |
| Rxn #13 | FTL Plate 5 | G7 | 50 | 0.580 | 0.0709 | 0.594 | 2.7 |
| Rxn #13 | FTL Plate 5 | H7: FOC | - | 0.590 | 0.0709 | 0.594 | 0.8 |
| Rxn #13 | FTL Plate 5 | A8: NFC | - | 0.073 | 0.0709 | 0.594 | 99.6 |
| Rxn #13 | FTL Plate 5 | B8 | 50 | 0.588 | 0.0709 | 0.594 | 1.1 |
| Rxn #13 | FTL Plate 5 | C8 | 50 | 0.599 | 0.0709 | 0.594 | -1.0 |
| Rxn #13 | FTL Plate 5 | D8 | 50 | 0.577 | 0.0709 | 0.594 | 3.2 |
| Rxn #13 | FTL Plate 5 | E8 | 50 | 0.581 | 0.0709 | 0.594 | 2.5 |
| Rxn #13 | FTL Plate 5 | F8 | 50 | 0.564 | 0.0709 | 0.594 | 5.7 |
| Rxn #13 | FTL Plate 5 | G8 | 50 | 0.549 | 0.0709 | 0.594 | 8.6 |
| Rxn #13 | FTL Plate 5 | H8: FOC | - | 0.585 | 0.0709 | 0.594 | 1.7 |
| Rxn #13 | FTL Plate 5 | A9: NFC | - | 0.063 | 0.0709 | 0.594 | 101.5 |
| Rxn #13 | FTL Plate 5 | B9 | 50 | 0.605 | 0.0709 | 0.594 | -2.1 |
| Rxn #13 | FTL Plate 5 | C9 | 50 | 0.599 | 0.0709 | 0.594 | -1.0 |
| Rxn #13 | FTL Plate 5 | D9 | 50 | 0.548 | 0.0709 | 0.594 | 8.8 |
| Rxn #13 | FTL Plate 5 | E9 | 50 | 0.585 | 0.0709 | 0.594 | 1.7 |
| Rxn #13 | FTL Plate 5 | F9 | 50 | 0.562 | 0.0709 | 0.594 | 6.1 |
| Rxn #13 | FTL Plate 5 | G9 | 50 | 0.571 | 0.0709 | 0.594 | 4.4 |
| Rxn #13 | FTL Plate 5 | H9: FOC | - | 0.580 | 0.0709 | 0.594 | 2.7 |
| Rxn #13 | FTL Plate 5 | A10: NFC | - | 0.068 | 0.0709 | 0.594 | 100.6 |
| Rxn #13 | FTL Plate 5 | B10 | 50 | 0.603 | 0.0709 | 0.594 | -1.7 |
| Rxn #13 | FTL Plate 5 | C10 | 50 | 0.520 | 0.0709 | 0.594 | 14.1 |
| Rxn #13 | FTL Plate 5 | D10 | 50 | 0.579 | 0.0709 | 0.594 | 2.9 |
| Rxn #13 | FTL Plate 5 | E10 | 50 | 0.588 | 0.0709 | 0.594 | 1.1 |
| Rxn #13 | FTL Plate 5 | F10 | 50 | 0.573 | 0.0709 | 0.594 | 4.0 |
| Rxn #13 | FTL Plate 5 | G10 | 50 | 0.577 | 0.0709 | 0.594 | 3.2 |
| Rxn #13 | FTL Plate 5 | H10: FOC | - | 0.600 | 0.0709 | 0.594 | -1.1 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #13 | FTL Plate 5 | A11: NFC | - | 0.073 | 0.0709 | 0.594 | 99.6 |
| Rxn #13 | FTL Plate 5 | B11 | 50 | 0.570 | 0.0709 | 0.594 | 4.6 |
| Rxn #13 | FTL Plate 5 | C11 | 50 | 0.582 | 0.0709 | 0.594 | 2.3 |
| Rxn #13 | FTL Plate 5 | D11 | 50 | 0.557 | 0.0709 | 0.594 | 7.1 |
| Rxn #13 | FTL Plate 5 | E11 | 50 | 0.583 | 0.0709 | 0.594 | 2.1 |
| Rxn #13 | FTL Plate 5 | F11 | 50 | 0.580 | 0.0709 | 0.594 | 2.7 |
| Rxn #13 | FTL Plate 5 | G11 | 50 | 0.585 | 0.0709 | 0.594 | 1.7 |
| Rxn #13 | FTL Plate 5 | H11: FOC | - | 0.592 | 0.0709 | 0.594 | 0.4 |
| Rxn #13 | FTL Plate 5 | A12: NFC | - | 0.080 | 0.0709 | 0.594 | 98.3 |
| Rxn #13 | FTL Plate 5 | H12: FOC | - | 0.606 | 0.0709 | 0.594 | -2.3 |
| Rxn #14 | FTL Plate 6 | A1: NFC | - | 0.050 | 0.0534 | 0.539 | 100.7 |
| Rxn #14 | FTL Plate 6 | B1 | 50 | 0.531 | 0.0534 | 0.539 | 1.6 |
| Rxn #14 | FTL Plate 6 | C1 | 50 | 0.497 | 0.0534 | 0.539 | 8.6 |
| Rxn #14 | FTL Plate 6 | D1 | 50 | 0.458 | 0.0534 | 0.539 | 16.7 |
| Rxn #14 | FTL Plate 6 | E1 | 50 | 0.499 | 0.0534 | 0.539 | 8.2 |
| Rxn #14 | FTL Plate 6 | F1 | 50 | 0.499 | 0.0534 | 0.539 | 8.2 |
| Rxn #14 | FTL Plate 6 | G1 | 50 | 0.484 | 0.0534 | 0.539 | 11.3 |
| Rxn #14 | FTL Plate 6 | H1: FOC | - | 0.502 | 0.0534 | 0.539 | 7.6 |
| Rxn #14 | FTL Plate 6 | A2: NFC | - | 0.045 | 0.0534 | 0.539 | 101.7 |
| Rxn #14 | FTL Plate 6 | B2 | 50 | 0.484 | 0.0534 | 0.539 | 11.3 |
| Rxn #14 | FTL Plate 6 | C2 | 50 | 0.531 | 0.0534 | 0.539 | 1.6 |
| Rxn #14 | FTL Plate 6 | D2 | 50 | 0.526 | 0.0534 | 0.539 | 2.7 |
| Rxn #14 | FTL Plate 6 | E2 | 50 | 0.516 | 0.0534 | 0.539 | 4.7 |
| Rxn #14 | FTL Plate 6 | F2 | 50 | 0.504 | 0.0534 | 0.539 | 7.2 |
| Rxn #14 | FTL Plate 6 | G2 | 50 | 0.524 | 0.0534 | 0.539 | 3.1 |
| Rxn #14 | FTL Plate 6 | H2: FOC | - | 0.533 | 0.0534 | 0.539 | 1.2 |
| Rxn #14 | FTL Plate 6 | A3: NFC | - | 0.043 | 0.0534 | 0.539 | 102.1 |
| Rxn #14 | FTL Plate 6 | B3 | 50 | 0.486 | 0.0534 | 0.539 | 10.9 |
| Rxn #14 | FTL Plate 6 | C3 | 50 | 0.569 | 0.0534 | 0.539 | -6.2 |
| Rxn #14 | FTL Plate 6 | D3 | 50 | 0.497 | 0.0534 | 0.539 | 8.6 |
| Rxn #14 | FTL Plate 6 | E3 | 50 | 0.525 | 0.0534 | 0.539 | 2.9 |
| Rxn #14 | FTL Plate 6 | F3 | 50 | 0.535 | 0.0534 | 0.539 | 0.8 |
| Rxn #14 | FTL Plate 6 | G3 | 50 | 0.535 | 0.0534 | 0.539 | 0.8 |
| Rxn #14 | FTL Plate 6 | H3: FOC | - | 0.537 | 0.0534 | 0.539 | 0.4 |
| Rxn #14 | FTL Plate 6 | A4: NFC | - | 0.054 | 0.0534 | 0.539 | 99.9 |
| Rxn #14 | FTL Plate 6 | B4 | 50 | 0.544 | 0.0534 | 0.539 | -1.0 |
| Rxn #14 | FTL Plate 6 | C4 | 50 | 0.577 | 0.0534 | 0.539 | -7.8 |
| Rxn #14 | FTL Plate 6 | D4 | 50 | 0.540 | 0.0534 | 0.539 | -0.2 |
| Rxn #14 | FTL Plate 6 | E4 | 50 | 0.536 | 0.0534 | 0.539 | 0.6 |
| Rxn #14 | FTL Plate 6 | F4 | 50 | 0.530 | 0.0534 | 0.539 | 1.9 |
| Rxn #14 | FTL Plate 6 | G4 | 50 | 0.571 | 0.0534 | 0.539 | -6.6 |
| Rxn #14 | FTL Plate 6 | H4: FOC | - | 0.526 | 0.0534 | 0.539 | 2.7 |
| Rxn #14 | FTL Plate 6 | A5: NFC | - | 0.054 | 0.0534 | 0.539 | 99.9 |
| Rxn #14 | FTL Plate 6 | B5: NFC | - | 0.056 | 0.0534 | 0.539 | 99.5 |
| Rxn #14 | FTL Plate 6 | C5: NFC | - | 0.045 | 0.0534 | 0.539 | 101.7 |
| Rxn #14 | FTL Plate 6 | D5: NFC | - | 0.040 | 0.0534 | 0.539 | 102.8 |
| Rxn #14 | FTL Plate 6 | E5: FOC | - | 0.545 | 0.0534 | 0.539 | -1.2 |
| Rxn #14 | FTL Plate 6 | F5: FOC | - | 0.545 | 0.0534 | 0.539 | -1.2 |
| Rxn #14 | FTL Plate 6 | G5: FOC | - | 0.537 | 0.0534 | 0.539 | 0.4 |
| Rxn #14 | FTL Plate 6 | H5: FOC | - | 0.546 | 0.0534 | 0.539 | -1.4 |
| Rxn #14 | FTL Plate 6 | A6: NFC | - | 0.060 | 0.0534 | 0.539 | 98.6 |
| Rxn #14 | FTL Plate 6 | B6 | 50 | 0.548 | 0.0534 | 0.539 | -1.9 |
| Rxn #14 | FTL Plate 6 | C6 | 50 | 0.533 | 0.0534 | 0.539 | 1.2 |
| Rxn #14 | FTL Plate 6 | D6 | 50 | 0.537 | 0.0534 | 0.539 | 0.4 |
| Rxn #14 | FTL Plate 6 | E6 | 50 | 0.514 | 0.0534 | 0.539 | 5.1 |
| Rxn #14 | FTL Plate 6 | F6 | 50 | 0.571 | 0.0534 | 0.539 | -6.6 |
| Rxn #14 | FTL Plate 6 | G6 | 50 | 0.516 | 0.0534 | 0.539 | 4.7 |
| Rxn #14 | FTL Plate 6 | H6: FOC | - | 0.542 | 0.0534 | 0.539 | -0.6 |
| Rxn #14 | FTL Plate 6 | A7: NFC | - | 0.064 | 0.0534 | 0.539 | 97.8 |
| Rxn #14 | FTL Plate 6 | B7 | 50 | 0.532 | 0.0534 | 0.539 | 1.4 |
| Rxn #14 | FTL Plate 6 | C7 | 50 | 0.549 | 0.0534 | 0.539 | -2.1 |
| Rxn #14 | FTL Plate 6 | D7 | 50 | 0.550 | 0.0534 | 0.539 | -2.3 |
| Rxn #14 | FTL Plate 6 | E7 | 50 | 0.543 | 0.0534 | 0.539 | -0.8 |
| Rxn #14 | FTL Plate 6 | F7 | 50 | 0.520 | 0.0534 | 0.539 | 3.9 |
| Rxn #14 | FTL Plate 6 | G7 | 50 | 0.497 | 0.0534 | 0.539 | 8.6 |
| Rxn #14 | FTL Plate 6 | H7: FOC | - | 0.551 | 0.0534 | 0.539 | -2.5 |
| Rxn #14 | FTL Plate 6 | A8: NFC | - | 0.063 | 0.0534 | 0.539 | 98.0 |
| Rxn #14 | FTL Plate 6 | B8 | 50 | 0.548 | 0.0534 | 0.539 | -1.9 |
| Rxn #14 | FTL Plate 6 | C8 | 50 | 0.562 | 0.0534 | 0.539 | -4.7 |
| Rxn #14 | FTL Plate 6 | D8 | 50 | 0.506 | 0.0534 | 0.539 | 6.8 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #14 | FTL Plate 6 | E8 | 50 | 0.548 | 0.0534 | 0.539 | -1.9 |
| Rxn #14 | FTL Plate 6 | F8 | 50 | 0.511 | 0.0534 | 0.539 | 5.8 |
| Rxn #14 | FTL Plate 6 | G8 | 50 | 0.541 | 0.0534 | 0.539 | -0.4 |
| Rxn #14 | FTL Plate 6 | H8: FOC | - | 0.556 | 0.0534 | 0.539 | -3.5 |
| Rxn #14 | FTL Plate 6 | A9: NFC | - | 0.053 | 0.0534 | 0.539 | 100.1 |
| Rxn #14 | FTL Plate 6 | B9 | 50 | 0.521 | 0.0534 | 0.539 | 3.7 |
| Rxn #14 | FTL Plate 6 | C9 | 50 | 0.550 | 0.0534 | 0.539 | -2.3 |
| Rxn #14 | FTL Plate 6 | D9 | 50 | 0.528 | 0.0534 | 0.539 | 2.3 |
| Rxn #14 | FTL Plate 6 | E9 | 50 | 0.553 | 0.0534 | 0.539 | -2.9 |
| Rxn #14 | FTL Plate 6 | F9 | 50 | 0.546 | 0.0534 | 0.539 | -1.4 |
| Rxn #14 | FTL Plate 6 | G9 | 50 | 0.540 | 0.0534 | 0.539 | -0.2 |
| Rxn #14 | FTL Plate 6 | H9: FOC | - | 0.540 | 0.0534 | 0.539 | -0.2 |
| Rxn #14 | FTL Plate 6 | A10: NFC | - | 0.053 | 0.0534 | 0.539 | 100.1 |
| Rxn #14 | FTL Plate 6 | B10 | 50 | 0.570 | 0.0534 | 0.539 | -6.4 |
| Rxn #14 | FTL Plate 6 | C10 | 50 | 0.556 | 0.0534 | 0.539 | -3.5 |
| Rxn #14 | FTL Plate 6 | D10 | 50 | 0.521 | 0.0534 | 0.539 | 3.7 |
| Rxn #14 | FTL Plate 6 | E10 | 50 | 0.570 | 0.0534 | 0.539 | -6.4 |
| Rxn #14 | FTL Plate 6 | F10 | 50 | 0.541 | 0.0534 | 0.539 | -0.4 |
| Rxn #14 | FTL Plate 6 | G10 | 50 | 0.557 | 0.0534 | 0.539 | -3.7 |
| Rxn #14 | FTL Plate 6 | H10: FOC | - | 0.543 | 0.0534 | 0.539 | -0.8 |
| Rxn #14 | FTL Plate 6 | A11: NFC | - | 0.062 | 0.0534 | 0.539 | 98.2 |
| Rxn #14 | FTL Plate 6 | B11 | 50 | 0.584 | 0.0534 | 0.539 | -9.3 |
| Rxn #14 | FTL Plate 6 | C11 | 50 | 0.523 | 0.0534 | 0.539 | 3.3 |
| Rxn #14 | FTL Plate 6 | D11 | 50 | 0.569 | 0.0534 | 0.539 | -6.2 |
| Rxn #14 | FTL Plate 6 | E11 | 50 | 0.557 | 0.0534 | 0.539 | -3.7 |
| Rxn #14 | FTL Plate 6 | F11 | 50 | 0.552 | 0.0534 | 0.539 | -2.7 |
| Rxn #14 | FTL Plate 6 | G11 | 50 | 0.568 | 0.0534 | 0.539 | -6.0 |
| Rxn #14 | FTL Plate 6 | H11: FOC | - | 0.544 | 0.0534 | 0.539 | -1.0 |
| Rxn #14 | FTL Plate 6 | A12: NFC | - | 0.059 | 0.0534 | 0.539 | 98.8 |
| Rxn #14 | FTL Plate 6 | H12: FOC | - | 0.541 | 0.0534 | 0.539 | -0.4 |
| Rxn #15 | FTL Plate 7 | A1: NFC | - | 0.067 | 0.0661 | 0.520 | 99.8 |
| Rxn #15 | FTL Plate 7 | B1 | 50 | 0.472 | 0.0661 | 0.520 | 10.6 |
| Rxn #15 | FTL Plate 7 | C1 | 50 | 0.485 | 0.0661 | 0.520 | 7.7 |
| Rxn #15 | FTL Plate 7 | D1 | 50 | 0.410 | 0.0661 | 0.520 | 24.2 |
| Rxn #15 | FTL Plate 7 | E1 | 50 | 0.457 | 0.0661 | 0.520 | 13.9 |
| Rxn #15 | FTL Plate 7 | F1 | 50 | 0.483 | 0.0661 | 0.520 | 8.2 |
| Rxn #15 | FTL Plate 7 | G1 | 50 | 0.451 | 0.0661 | 0.520 | 15.2 |
| Rxn #15 | FTL Plate 7 | H1: FOC | - | 0.498 | 0.0661 | 0.520 | 4.8 |
| Rxn #15 | FTL Plate 7 | A2: NFC | - | 0.073 | 0.0661 | 0.520 | 98.5 |
| Rxn #15 | FTL Plate 7 | B2 | 50 | 0.453 | 0.0661 | 0.520 | 14.8 |
| Rxn #15 | FTL Plate 7 | C2 | 50 | 0.485 | 0.0661 | 0.520 | 7.7 |
| Rxn #15 | FTL Plate 7 | D2 | 50 | 0.507 | 0.0661 | 0.520 | 2.9 |
| Rxn #15 | FTL Plate 7 | E2 | 50 | 0.447 | 0.0661 | 0.520 | 16.1 |
| Rxn #15 | FTL Plate 7 | F2 | 50 | 0.484 | 0.0661 | 0.520 | 7.9 |
| Rxn #15 | FTL Plate 7 | G2 | 50 | 0.492 | 0.0661 | 0.520 | 6.2 |
| Rxn #15 | FTL Plate 7 | H2: FOC | - | 0.522 | 0.0661 | 0.520 | -0.4 |
| Rxn #15 | FTL Plate 7 | A3: NFC | - | 0.062 | 0.0661 | 0.520 | 100.9 |
| Rxn #15 | FTL Plate 7 | B3 | 50 | 0.511 | 0.0661 | 0.520 | 2.0 |
| Rxn #15 | FTL Plate 7 | C3 | 50 | 0.496 | 0.0661 | 0.520 | 5.3 |
| Rxn #15 | FTL Plate 7 | D3 | 50 | 0.493 | 0.0661 | 0.520 | 5.9 |
| Rxn #15 | FTL Plate 7 | E3 | 50 | 0.518 | 0.0661 | 0.520 | 0.4 |
| Rxn #15 | FTL Plate 7 | F3 | 50 | 0.447 | 0.0661 | 0.520 | 16.1 |
| Rxn #15 | FTL Plate 7 | G3 | 50 | 0.489 | 0.0661 | 0.520 | 6.8 |
| Rxn #15 | FTL Plate 7 | H3: FOC | - | 0.525 | 0.0661 | 0.520 | -1.1 |
| Rxn #15 | FTL Plate 7 | A4: NFC | - | 0.066 | 0.0661 | 0.520 | 100.0 |
| Rxn #15 | FTL Plate 7 | B4 | 50 | 0.492 | 0.0661 | 0.520 | 6.2 |
| Rxn #15 | FTL Plate 7 | C4 | 50 | 0.496 | 0.0661 | 0.520 | 5.3 |
| Rxn #15 | FTL Plate 7 | D4 | 50 | 0.514 | 0.0661 | 0.520 | 1.3 |
| Rxn #15 | FTL Plate 7 | E4 | 50 | 0.533 | 0.0661 | 0.520 | -2.9 |
| Rxn #15 | FTL Plate 7 | F4 | 50 | 0.488 | 0.0661 | 0.520 | 7.1 |
| Rxn #15 | FTL Plate 7 | G4 | 50 | 0.485 | 0.0661 | 0.520 | 7.7 |
| Rxn #15 | FTL Plate 7 | H4: FOC | - | 0.538 | 0.0661 | 0.520 | -4.0 |
| Rxn #15 | FTL Plate 7 | A5: NFC | - | 0.064 | 0.0661 | 0.520 | 100.5 |
| Rxn #15 | FTL Plate 7 | B5: NFC | - | 0.063 | 0.0661 | 0.520 | 100.7 |
| Rxn #15 | FTL Plate 7 | C5: NFC | - | 0.058 | 0.0661 | 0.520 | 101.8 |
| Rxn #15 | FTL Plate 7 | D5: NFC | - | 0.054 | 0.0661 | 0.520 | 102.7 |
| Rxn #15 | FTL Plate 7 | E5: FOC | - | 0.534 | 0.0661 | 0.520 | -3.1 |
| Rxn #15 | FTL Plate 7 | F5: FOC | - | 0.517 | 0.0661 | 0.520 | 0.7 |
| Rxn #15 | FTL Plate 7 | G5: FOC | - | 0.510 | 0.0661 | 0.520 | 2.2 |
| Rxn #15 | FTL Plate 7 | H5: FOC | - | 0.524 | 0.0661 | 0.520 | -0.9 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #15 | FTL Plate 7 | A6: NFC | - | 0.063 | 0.0661 | 0.520 | 100.7 |
| Rxn #15 | FTL Plate 7 | B6 | 50 | 0.510 | 0.0661 | 0.520 | 2.2 |
| Rxn #15 | FTL Plate 7 | C6 | 50 | 0.517 | 0.0661 | 0.520 | 0.7 |
| Rxn #15 | FTL Plate 7 | D6 | 50 | 0.390 | 0.0661 | 0.520 | 28.6 |
| Rxn #15 | FTL Plate 7 | E6 | 50 | 0.480 | 0.0661 | 0.520 | 8.8 |
| Rxn #15 | FTL Plate 7 | F6 | 50 | 0.538 | 0.0661 | 0.520 | -4.0 |
| Rxn #15 | FTL Plate 7 | G6 | 50 | 0.499 | 0.0661 | 0.520 | 4.6 |
| Rxn #15 | FTL Plate 7 | H6: FOC | - | 0.535 | 0.0661 | 0.520 | -3.3 |
| Rxn #15 | FTL Plate 7 | A7: NFC | - | 0.079 | 0.0661 | 0.520 | 97.2 |
| Rxn #15 | FTL Plate 7 | B7 | 50 | 0.527 | 0.0661 | 0.520 | -1.5 |
| Rxn #15 | FTL Plate 7 | C7 | 50 | 0.374 | 0.0661 | 0.520 | 32.2 |
| Rxn #15 | FTL Plate 7 | D7 | 50 | 0.536 | 0.0661 | 0.520 | -3.5 |
| Rxn #15 | FTL Plate 7 | E7 | 50 | 0.463 | 0.0661 | 0.520 | 12.6 |
| Rxn #15 | FTL Plate 7 | F7 | 50 | 0.493 | 0.0661 | 0.520 | 5.9 |
| Rxn #15 | FTL Plate 7 | G7 | 50 | 0.495 | 0.0661 | 0.520 | 5.5 |
| Rxn #15 | FTL Plate 7 | H7: FOC | - | 0.527 | 0.0661 | 0.520 | -1.5 |
| Rxn #15 | FTL Plate 7 | A8: NFC | - | 0.069 | 0.0661 | 0.520 | 99.4 |
| Rxn #15 | FTL Plate 7 | B8 | 50 | 0.506 | 0.0661 | 0.520 | 3.1 |
| Rxn #15 | FTL Plate 7 | C8 | 50 | 0.509 | 0.0661 | 0.520 | 2.4 |
| Rxn #15 | FTL Plate 7 | D8 | 50 | 0.489 | 0.0661 | 0.520 | 6.8 |
| Rxn #15 | FTL Plate 7 | E8 | 50 | 0.532 | 0.0661 | 0.520 | -2.6 |
| Rxn #15 | FTL Plate 7 | F8 | 50 | 0.484 | 0.0661 | 0.520 | 7.9 |
| Rxn #15 | FTL Plate 7 | G8 | 50 | 0.456 | 0.0661 | 0.520 | 14.1 |
| Rxn #15 | FTL Plate 7 | H8: FOC | - | 0.519 | 0.0661 | 0.520 | 0.2 |
| Rxn #15 | FTL Plate 7 | A9: NFC | - | 0.064 | 0.0661 | 0.520 | 100.5 |
| Rxn #15 | FTL Plate 7 | B9 | 50 | 0.476 | 0.0661 | 0.520 | 9.7 |
| Rxn #15 | FTL Plate 7 | C9 | 50 | 0.502 | 0.0661 | 0.520 | 4.0 |
| Rxn #15 | FTL Plate 7 | D9 | 50 | 0.436 | 0.0661 | 0.520 | 18.5 |
| Rxn #15 | FTL Plate 7 | E9 | 50 | 0.520 | 0.0661 | 0.520 | 0.0 |
| Rxn #15 | FTL Plate 7 | F9 | 50 | 0.523 | 0.0661 | 0.520 | -0.7 |
| Rxn #15 | FTL Plate 7 | G9 | 50 | 0.500 | 0.0661 | 0.520 | 4.4 |
| Rxn #15 | FTL Plate 7 | H9: FOC | - | 0.518 | 0.0661 | 0.520 | 0.4 |
| Rxn #15 | FTL Plate 7 | A10: NFC | - | 0.065 | 0.0661 | 0.520 | 100.2 |
| Rxn #15 | FTL Plate 7 | B10 | 50 | 0.517 | 0.0661 | 0.520 | 0.7 |
| Rxn #15 | FTL Plate 7 | C10 | 50 | 0.416 | 0.0661 | 0.520 | 22.9 |
| Rxn #15 | FTL Plate 7 | D10 | 50 | 0.450 | 0.0661 | 0.520 | 15.4 |
| Rxn #15 | FTL Plate 7 | E10 | 50 | 0.550 | 0.0661 | 0.520 | -6.6 |
| Rxn #15 | FTL Plate 7 | F10 | 50 | 0.478 | 0.0661 | 0.520 | 9.3 |
| Rxn #15 | FTL Plate 7 | G10 | 50 | 0.486 | 0.0661 | 0.520 | 7.5 |
| Rxn #15 | FTL Plate 7 | H10: FOC | - | 0.513 | 0.0661 | 0.520 | 1.5 |
| Rxn #15 | FTL Plate 7 | A11: NFC | - | 0.072 | 0.0661 | 0.520 | 98.7 |
| Rxn #15 | FTL Plate 7 | B11 | 50 | 0.516 | 0.0661 | 0.520 | 0.9 |
| Rxn #15 | FTL Plate 7 | C11 | 50 | 0.440 | 0.0661 | 0.520 | 17.6 |
| Rxn #15 | FTL Plate 7 | D11 | 50 | 0.460 | 0.0661 | 0.520 | 13.2 |
| Rxn #15 | FTL Plate 7 | E11 | 50 | 0.492 | 0.0661 | 0.520 | 6.2 |
| Rxn #15 | FTL Plate 7 | F11 | 50 | 0.515 | 0.0661 | 0.520 | 1.1 |
| Rxn #15 | FTL Plate 7 | G11 | 50 | 0.533 | 0.0661 | 0.520 | -2.9 |
| Rxn #15 | FTL Plate 7 | H11: FOC | - | 0.534 | 0.0661 | 0.520 | -3.1 |
| Rxn #15 | FTL Plate 7 | A12: NFC | - | 0.072 | 0.0661 | 0.520 | 98.7 |
| Rxn #15 | FTL Plate 7 | H12: FOC | - | 0.491 | 0.0661 | 0.520 | 6.4 |
| Rxn #16 | FTL Plate 8 | A1: NFC | - | 0.067 | 0.0650 | 0.538 | 99.6 |
| Rxn #16 | FTL Plate 8 | B1 | 50 | 0.526 | 0.0650 | 0.538 | 2.5 |
| Rxn #16 | FTL Plate 8 | C1 | 50 | 0.498 | 0.0650 | 0.538 | 8.5 |
| Rxn #16 | FTL Plate 8 | D1 | 50 | 0.466 | 0.0650 | 0.538 | 15.2 |
| Rxn #16 | FTL Plate 8 | E1 | 50 | 0.542 | 0.0650 | 0.538 | -0.8 |
| Rxn #16 | FTL Plate 8 | F1 | 50 | 0.524 | 0.0650 | 0.538 | 3.0 |
| Rxn #16 | FTL Plate 8 | G1 | 50 | 0.530 | 0.0650 | 0.538 | 1.7 |
| Rxn #16 | FTL Plate 8 | H1: FOC | - | 0.505 | 0.0650 | 0.538 | 7.0 |
| Rxn #16 | FTL Plate 8 | A2: NFC | - | 0.079 | 0.0650 | 0.538 | 97.0 |
| Rxn #16 | FTL Plate 8 | B2 | 50 | 0.599 | 0.0650 | 0.538 | -12.9 |
| Rxn #16 | FTL Plate 8 | C2 | 50 | 0.506 | 0.0650 | 0.538 | 6.8 |
| Rxn #16 | FTL Plate 8 | D2 | 50 | 0.529 | 0.0650 | 0.538 | 1.9 |
| Rxn #16 | FTL Plate 8 | E2 | 50 | 0.589 | 0.0650 | 0.538 | -10.8 |
| Rxn #16 | FTL Plate 8 | F2 | 50 | 0.555 | 0.0650 | 0.538 | -3.6 |
| Rxn #16 | FTL Plate 8 | G2 | 50 | 0.523 | 0.0650 | 0.538 | 3.2 |
| Rxn #16 | FTL Plate 8 | H2: FOC | - | 0.546 | 0.0650 | 0.538 | -1.7 |
| Rxn #16 | FTL Plate 8 | A3: NFC | - | 0.062 | 0.0650 | 0.538 | 100.6 |
| Rxn #16 | FTL Plate 8 | B3 | 50 | 0.549 | 0.0650 | 0.538 | -2.3 |
| Rxn #16 | FTL Plate 8 | C3 | 50 | 0.548 | 0.0650 | 0.538 | -2.1 |
| Rxn #16 | FTL Plate 8 | D3 | 50 | 0.555 | 0.0650 | 0.538 | -3.6 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #16 | FTL Plate 8 | E3 | 50 | 0.548 | 0.0650 | 0.538 | -2.1 |
| Rxn #16 | FTL Plate 8 | F3 | 50 | 0.560 | 0.0650 | 0.538 | -4.7 |
| Rxn #16 | FTL Plate 8 | G3 | 50 | 0.577 | 0.0650 | 0.538 | -8.2 |
| Rxn #16 | FTL Plate 8 | H3: FOC | - | 0.552 | 0.0650 | 0.538 | -3.0 |
| Rxn #16 | FTL Plate 8 | A4: NFC | - | 0.065 | 0.0650 | 0.538 | 100.0 |
| Rxn #16 | FTL Plate 8 | B4 | 50 | 0.583 | 0.0650 | 0.538 | -9.5 |
| Rxn #16 | FTL Plate 8 | C4 | 50 | 0.588 | 0.0650 | 0.538 | -10.6 |
| Rxn #16 | FTL Plate 8 | D4 | 50 | 0.511 | 0.0650 | 0.538 | 5.7 |
| Rxn #16 | FTL Plate 8 | E4 | 50 | 0.541 | 0.0650 | 0.538 | -0.6 |
| Rxn #16 | FTL Plate 8 | F4 | 50 | 0.565 | 0.0650 | 0.538 | -5.7 |
| Rxn #16 | FTL Plate 8 | G4 | 50 | 0.562 | 0.0650 | 0.538 | -5.1 |
| Rxn #16 | FTL Plate 8 | H4: FOC | - | 0.535 | 0.0650 | 0.538 | 0.6 |
| Rxn #16 | FTL Plate 8 | A5: NFC | - | 0.064 | 0.0650 | 0.538 | 100.2 |
| Rxn #16 | FTL Plate 8 | B5: NFC | - | 0.054 | 0.0650 | 0.538 | 102.3 |
| Rxn #16 | FTL Plate 8 | C5: NFC | - | 0.053 | 0.0650 | 0.538 | 102.5 |
| Rxn #16 | FTL Plate 8 | D5: NFC | - | 0.046 | 0.0650 | 0.538 | 104.0 |
| Rxn #16 | FTL Plate 8 | E5: FOC | - | 0.546 | 0.0650 | 0.538 | -1.7 |
| Rxn #16 | FTL Plate 8 | F5: FOC | - | 0.571 | 0.0650 | 0.538 | -7.0 |
| Rxn #16 | FTL Plate 8 | G5: FOC | - | 0.535 | 0.0650 | 0.538 | 0.6 |
| Rxn #16 | FTL Plate 8 | H5: FOC | - | 0.550 | 0.0650 | 0.538 | -2.5 |
| Rxn #16 | FTL Plate 8 | A6: NFC | - | 0.073 | 0.0650 | 0.538 | 98.3 |
| Rxn #16 | FTL Plate 8 | B6 | 50 | 0.584 | 0.0650 | 0.538 | -9.7 |
| Rxn #16 | FTL Plate 8 | C6 | 50 | 0.548 | 0.0650 | 0.538 | -2.1 |
| Rxn #16 | FTL Plate 8 | D6 | 50 | 0.538 | 0.0650 | 0.538 | 0.0 |
| Rxn #16 | FTL Plate 8 | E6 | 50 | 0.557 | 0.0650 | 0.538 | -4.0 |
| Rxn #16 | FTL Plate 8 | F6 | 50 | 0.519 | 0.0650 | 0.538 | 4.0 |
| Rxn #16 | FTL Plate 8 | G6 | 50 | 0.591 | 0.0650 | 0.538 | -11.2 |
| Rxn #16 | FTL Plate 8 | H6: FOC | - | 0.525 | 0.0650 | 0.538 | 2.7 |
| Rxn #16 | FTL Plate 8 | A7: NFC | - | 0.069 | 0.0650 | 0.538 | 99.2 |
| Rxn #16 | FTL Plate 8 | B7 | 50 | 0.574 | 0.0650 | 0.538 | -7.6 |
| Rxn #16 | FTL Plate 8 | C7 | 50 | 0.571 | 0.0650 | 0.538 | -7.0 |
| Rxn #16 | FTL Plate 8 | D7 | 50 | 0.466 | 0.0650 | 0.538 | 15.2 |
| Rxn #16 | FTL Plate 8 | E7 | 50 | 0.577 | 0.0650 | 0.538 | -8.2 |
| Rxn #16 | FTL Plate 8 | F7 | 50 | 0.546 | 0.0650 | 0.538 | -1.7 |
| Rxn #16 | FTL Plate 8 | G7 | 50 | 0.545 | 0.0650 | 0.538 | -1.5 |
| Rxn #16 | FTL Plate 8 | H7: FOC | - | 0.529 | 0.0650 | 0.538 | 1.9 |
| Rxn #16 | FTL Plate 8 | A8: NFC | - | 0.070 | 0.0650 | 0.538 | 98.9 |
| Rxn #16 | FTL Plate 8 | B8 | 50 | 0.520 | 0.0650 | 0.538 | 3.8 |
| Rxn #16 | FTL Plate 8 | C8 | 50 | 0.549 | 0.0650 | 0.538 | -2.3 |
| Rxn #16 | FTL Plate 8 | D8 | 50 | 0.539 | 0.0650 | 0.538 | -0.2 |
| Rxn #16 | FTL Plate 8 | E8 | 50 | 0.550 | 0.0650 | 0.538 | -2.5 |
| Rxn #16 | FTL Plate 8 | F8 | 50 | 0.544 | 0.0650 | 0.538 | -1.3 |
| Rxn #16 | FTL Plate 8 | G8 | 50 | 0.553 | 0.0650 | 0.538 | -3.2 |
| Rxn #16 | FTL Plate 8 | H8: FOC | - | 0.544 | 0.0650 | 0.538 | -1.3 |
| Rxn #16 | FTL Plate 8 | A9: NFC | - | 0.068 | 0.0650 | 0.538 | 99.4 |
| Rxn #16 | FTL Plate 8 | B9 | 50 | 0.370 | 0.0650 | 0.538 | 35.5 |
| Rxn #16 | FTL Plate 8 | C9 | 50 | 0.535 | 0.0650 | 0.538 | 0.6 |
| Rxn #16 | FTL Plate 8 | D9 | 50 | 0.536 | 0.0650 | 0.538 | 0.4 |
| Rxn #16 | FTL Plate 8 | E9 | 50 | 0.483 | 0.0650 | 0.538 | 11.6 |
| Rxn #16 | FTL Plate 8 | F9 | 50 | 0.529 | 0.0650 | 0.538 | 1.9 |
| Rxn #16 | FTL Plate 8 | G9 | 50 | 0.519 | 0.0650 | 0.538 | 4.0 |
| Rxn #16 | FTL Plate 8 | H9: FOC | - | 0.529 | 0.0650 | 0.538 | 1.9 |
| Rxn #16 | FTL Plate 8 | A10: NFC | - | 0.062 | 0.0650 | 0.538 | 100.6 |
| Rxn #16 | FTL Plate 8 | B10 | 50 | 0.567 | 0.0650 | 0.538 | -6.1 |
| Rxn #16 | FTL Plate 8 | C10 | 50 | 0.559 | 0.0650 | 0.538 | -4.4 |
| Rxn #16 | FTL Plate 8 | D10 | 50 | 0.521 | 0.0650 | 0.538 | 3.6 |
| Rxn #16 | FTL Plate 8 | E10 | 50 | 0.555 | 0.0650 | 0.538 | -3.6 |
| Rxn #16 | FTL Plate 8 | F10 | 50 | 0.527 | 0.0650 | 0.538 | 2.3 |
| Rxn #16 | FTL Plate 8 | G10 | 50 | 0.531 | 0.0650 | 0.538 | 1.5 |
| Rxn #16 | FTL Plate 8 | H10: FOC | - | 0.528 | 0.0650 | 0.538 | 2.1 |
| Rxn #16 | FTL Plate 8 | A11: NFC | - | 0.063 | 0.0650 | 0.538 | 100.4 |
| Rxn #16 | FTL Plate 8 | B11 | 50 | 0.552 | 0.0650 | 0.538 | -3.0 |
| Rxn #16 | FTL Plate 8 | C11 | 50 | 0.284 | 0.0650 | 0.538 | 53.7 |
| Rxn #16 | FTL Plate 8 | D11 | 50 | 0.537 | 0.0650 | 0.538 | 0.2 |
| Rxn #16 | FTL Plate 8 | E11 | 50 | 0.528 | 0.0650 | 0.538 | 2.1 |
| Rxn #16 | FTL Plate 8 | F11 | 50 | 0.504 | 0.0650 | 0.538 | 7.2 |
| Rxn #16 | FTL Plate 8 | G11 | 50 | 0.531 | 0.0650 | 0.538 | 1.5 |
| Rxn #16 | FTL Plate 8 | H11: FOC | - | 0.536 | 0.0650 | 0.538 | 0.4 |
| Rxn #16 | FTL Plate 8 | A12: NFC | - | 0.080 | 0.0650 | 0.538 | 96.8 |
| Rxn #16 | FTL Plate 8 | H12: FOC | - | 0.538 | 0.0650 | 0.538 | 0.0 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|---------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #17 | FTL Plate 23 | A1: NFC | - | 0.085 | 0.0783 | 0.560 | 98.6 |
| Rxn #17 | FTL Plate 23 | B1 | 50 | 0.500 | 0.0783 | 0.560 | 12.5 |
| Rxn #17 | FTL Plate 23 | C1 | 50 | 0.484 | 0.0783 | 0.560 | 15.8 |
| Rxn #17 | FTL Plate 23 | D1 | 50 | 0.513 | 0.0783 | 0.560 | 9.8 |
| Rxn #17 | FTL Plate 23 | E1 | 50 | 0.502 | 0.0783 | 0.560 | 12.0 |
| Rxn #17 | FTL Plate 23 | F1 | 50 | 0.424 | 0.0783 | 0.560 | 28.2 |
| Rxn #17 | FTL Plate 23 | G1 | 50 | 0.525 | 0.0783 | 0.560 | 7.3 |
| Rxn #17 | FTL Plate 23 | H1: FOC | - | 0.559 | 0.0783 | 0.560 | 0.2 |
| Rxn #17 | FTL Plate 23 | A2: NFC | - | 0.086 | 0.0783 | 0.560 | 98.4 |
| Rxn #17 | FTL Plate 23 | B2 | 50 | 0.523 | 0.0783 | 0.560 | 7.7 |
| Rxn #17 | FTL Plate 23 | C2 | 50 | 0.534 | 0.0783 | 0.560 | 5.4 |
| Rxn #17 | FTL Plate 23 | D2 | 50 | 0.469 | 0.0783 | 0.560 | 18.9 |
| Rxn #17 | FTL Plate 23 | E2 | 50 | 0.445 | 0.0783 | 0.560 | 23.9 |
| Rxn #17 | FTL Plate 23 | F2 | 50 | 0.516 | 0.0783 | 0.560 | 9.1 |
| Rxn #17 | FTL Plate 23 | G2 | 50 | 0.502 | 0.0783 | 0.560 | 12.0 |
| Rxn #17 | FTL Plate 23 | H2: FOC | - | 0.574 | 0.0783 | 0.560 | -2.9 |
| Rxn #17 | FTL Plate 23 | A3: NFC | - | 0.087 | 0.0783 | 0.560 | 98.2 |
| Rxn #17 | FTL Plate 23 | B3 | 50 | 0.553 | 0.0783 | 0.560 | 1.5 |
| Rxn #17 | FTL Plate 23 | C3 | 50 | 0.506 | 0.0783 | 0.560 | 11.2 |
| Rxn #17 | FTL Plate 23 | D3 | 50 | 0.547 | 0.0783 | 0.560 | 2.7 |
| Rxn #17 | FTL Plate 23 | E3 | 50 | 0.536 | 0.0783 | 0.560 | 5.0 |
| Rxn #17 | FTL Plate 23 | F3 | 50 | 0.525 | 0.0783 | 0.560 | 7.3 |
| Rxn #17 | FTL Plate 23 | G3 | 50 | 0.648 | 0.0783 | 0.560 | -18.3 |
| Rxn #17 | FTL Plate 23 | H3: FOC | - | 0.575 | 0.0783 | 0.560 | -3.1 |
| Rxn #17 | FTL Plate 23 | A4: NFC | - | 0.093 | 0.0783 | 0.560 | 96.9 |
| Rxn #17 | FTL Plate 23 | B4 | 50 | 0.575 | 0.0783 | 0.560 | -3.1 |
| Rxn #17 | FTL Plate 23 | C4 | 50 | 0.544 | 0.0783 | 0.560 | 3.3 |
| Rxn #17 | FTL Plate 23 | D4 | 50 | 0.548 | 0.0783 | 0.560 | 2.5 |
| Rxn #17 | FTL Plate 23 | E4 | 50 | 0.556 | 0.0783 | 0.560 | 0.8 |
| Rxn #17 | FTL Plate 23 | F4 | 50 | 0.562 | 0.0783 | 0.560 | -0.4 |
| Rxn #17 | FTL Plate 23 | G4 | 50 | 0.568 | 0.0783 | 0.560 | -1.7 |
| Rxn #17 | FTL Plate 23 | H4: FOC | - | 0.567 | 0.0783 | 0.560 | -1.5 |
| Rxn #17 | FTL Plate 23 | A5: NFC | - | 0.091 | 0.0783 | 0.560 | 97.4 |
| Rxn #17 | FTL Plate 23 | B5: NFC | - | 0.075 | 0.0783 | 0.560 | 100.7 |
| Rxn #17 | FTL Plate 23 | C5: NFC | - | 0.076 | 0.0783 | 0.560 | 100.5 |
| Rxn #17 | FTL Plate 23 | D5: NFC | - | 0.073 | 0.0783 | 0.560 | 101.1 |
| Rxn #17 | FTL Plate 23 | E5: FOC | - | 0.561 | 0.0783 | 0.560 | -0.2 |
| Rxn #17 | FTL Plate 23 | F5: FOC | - | 0.556 | 0.0783 | 0.560 | 0.8 |
| Rxn #17 | FTL Plate 23 | G5: FOC | - | 0.551 | 0.0783 | 0.560 | 1.9 |
| Rxn #17 | FTL Plate 23 | H5: FOC | - | 0.542 | 0.0783 | 0.560 | 3.7 |
| Rxn #17 | FTL Plate 23 | A6: NFC | - | 0.083 | 0.0783 | 0.560 | 99.0 |
| Rxn #17 | FTL Plate 23 | B6 | 50 | 0.554 | 0.0783 | 0.560 | 1.2 |
| Rxn #17 | FTL Plate 23 | C6 | 50 | 0.394 | 0.0783 | 0.560 | 34.5 |
| Rxn #17 | FTL Plate 23 | D6 | 50 | 0.560 | 0.0783 | 0.560 | 0.0 |
| Rxn #17 | FTL Plate 23 | E6 | 50 | 0.537 | 0.0783 | 0.560 | 4.8 |
| Rxn #17 | FTL Plate 23 | F6 | 50 | 0.551 | 0.0783 | 0.560 | 1.9 |
| Rxn #17 | FTL Plate 23 | G6 | 50 | 0.566 | 0.0783 | 0.560 | -1.2 |
| Rxn #17 | FTL Plate 23 | H6: FOC | - | 0.568 | 0.0783 | 0.560 | -1.7 |
| Rxn #17 | FTL Plate 23 | A7: NFC | - | 0.089 | 0.0783 | 0.560 | 97.8 |
| Rxn #17 | FTL Plate 23 | B7 | 50 | 0.458 | 0.0783 | 0.560 | 21.2 |
| Rxn #17 | FTL Plate 23 | C7 | 50 | 0.551 | 0.0783 | 0.560 | 1.9 |
| Rxn #17 | FTL Plate 23 | D7 | 50 | 0.549 | 0.0783 | 0.560 | 2.3 |
| Rxn #17 | FTL Plate 23 | E7 | 50 | 0.545 | 0.0783 | 0.560 | 3.1 |
| Rxn #17 | FTL Plate 23 | F7 | 50 | 0.530 | 0.0783 | 0.560 | 6.2 |
| Rxn #17 | FTL Plate 23 | G7 | 50 | 0.524 | 0.0783 | 0.560 | 7.5 |
| Rxn #17 | FTL Plate 23 | H7: FOC | - | 0.569 | 0.0783 | 0.560 | -1.9 |
| Rxn #17 | FTL Plate 23 | A8: NFC | - | 0.080 | 0.0783 | 0.560 | 99.6 |
| Rxn #17 | FTL Plate 23 | B8 | 50 | 0.549 | 0.0783 | 0.560 | 2.3 |
| Rxn #17 | FTL Plate 23 | C8 | 50 | 0.638 | 0.0783 | 0.560 | -16.2 |
| Rxn #17 | FTL Plate 23 | D8 | 50 | 0.449 | 0.0783 | 0.560 | 23.0 |
| Rxn #17 | FTL Plate 23 | E8 | 50 | 0.548 | 0.0783 | 0.560 | 2.5 |
| Rxn #17 | FTL Plate 23 | F8 | 50 | 0.529 | 0.0783 | 0.560 | 6.4 |
| Rxn #17 | FTL Plate 23 | G8 | 50 | 0.543 | 0.0783 | 0.560 | 3.5 |
| Rxn #17 | FTL Plate 23 | H8: FOC | - | 0.549 | 0.0783 | 0.560 | 2.3 |
| Rxn #17 | FTL Plate 23 | A9: NFC | - | 0.072 | 0.0783 | 0.560 | 101.3 |
| Rxn #17 | FTL Plate 23 | B9 | 50 | 0.536 | 0.0783 | 0.560 | 5.0 |
| Rxn #17 | FTL Plate 23 | C9 | 50 | 0.418 | 0.0783 | 0.560 | 29.5 |
| Rxn #17 | FTL Plate 23 | D9 | 50 | 0.439 | 0.0783 | 0.560 | 25.1 |
| Rxn #17 | FTL Plate 23 | E9 | 50 | 0.473 | 0.0783 | 0.560 | 18.1 |
| Rxn #17 | FTL Plate 23 | F9 | 50 | 0.384 | 0.0783 | 0.560 | 36.5 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #17 | FTL Plate 23 | G9 | 50 | 0.424 | 0.0783 | 0.560 | 28.2 |
| Rxn #17 | FTL Plate 23 | H9: FOC | - | 0.552 | 0.0783 | 0.560 | 1.7 |
| Rxn #17 | FTL Plate 23 | A10: NFC | - | 0.050 | 0.0783 | 0.560 | 105.9 |
| Rxn #17 | FTL Plate 23 | B10 | 50 | 0.430 | 0.0783 | 0.560 | 27.0 |
| Rxn #17 | FTL Plate 23 | C10 | 50 | 0.454 | 0.0783 | 0.560 | 22.0 |
| Rxn #17 | FTL Plate 23 | D10 | 50 | 0.480 | 0.0783 | 0.560 | 16.6 |
| Rxn #17 | FTL Plate 23 | E10 | 50 | 0.384 | 0.0783 | 0.560 | 36.5 |
| Rxn #17 | FTL Plate 23 | F10 | 50 | 0.424 | 0.0783 | 0.560 | 28.2 |
| Rxn #17 | FTL Plate 23 | G10 | 50 | 0.361 | 0.0783 | 0.560 | 41.3 |
| Rxn #17 | FTL Plate 23 | H10: FOC | - | 0.580 | 0.0783 | 0.560 | -4.2 |
| Rxn #17 | FTL Plate 23 | A11: NFC | - | 0.075 | 0.0783 | 0.560 | 100.7 |
| Rxn #17 | FTL Plate 23 | B11 | 50 | 0.409 | 0.0783 | 0.560 | 31.3 |
| Rxn #17 | FTL Plate 23 | C11 | 50 | 0.524 | 0.0783 | 0.560 | 7.5 |
| Rxn #17 | FTL Plate 23 | D11 | 50 | 0.485 | 0.0783 | 0.560 | 15.6 |
| Rxn #17 | FTL Plate 23 | E11 | 50 | 0.394 | 0.0783 | 0.560 | 34.5 |
| Rxn #17 | FTL Plate 23 | F11 | 50 | 0.408 | 0.0783 | 0.560 | 31.6 |
| Rxn #17 | FTL Plate 23 | G11 | 50 | 0.472 | 0.0783 | 0.560 | 18.3 |
| Rxn #17 | FTL Plate 23 | H11: FOC | - | 0.530 | 0.0783 | 0.560 | 6.2 |
| Rxn #17 | FTL Plate 23 | A12: NFC | - | 0.060 | 0.0783 | 0.560 | 103.8 |
| Rxn #17 | FTL Plate 23 | H12: FOC | - | 0.567 | 0.0783 | 0.560 | -1.5 |
| Rxn #18 | FTL Plate 24 | A1: NFC | - | 0.075 | 0.0731 | 0.509 | 99.6 |
| Rxn #18 | FTL Plate 24 | B1 | 50 | 0.464 | 0.0731 | 0.509 | 10.3 |
| Rxn #18 | FTL Plate 24 | C1 | 50 | 0.481 | 0.0731 | 0.509 | 6.4 |
| Rxn #18 | FTL Plate 24 | D1 | 50 | 0.429 | 0.0731 | 0.509 | 18.4 |
| Rxn #18 | FTL Plate 24 | E1 | 50 | 0.474 | 0.0731 | 0.509 | 8.0 |
| Rxn #18 | FTL Plate 24 | F1 | 50 | 0.471 | 0.0731 | 0.509 | 8.7 |
| Rxn #18 | FTL Plate 24 | G1 | 50 | 0.430 | 0.0731 | 0.509 | 18.1 |
| Rxn #18 | FTL Plate 24 | H1: FOC | - | 0.507 | 0.0731 | 0.509 | 0.5 |
| Rxn #18 | FTL Plate 24 | A2: NFC | - | 0.077 | 0.0731 | 0.509 | 99.1 |
| Rxn #18 | FTL Plate 24 | B2 | 50 | 0.502 | 0.0731 | 0.509 | 1.6 |
| Rxn #18 | FTL Plate 24 | C2 | 50 | 0.446 | 0.0731 | 0.509 | 14.5 |
| Rxn #18 | FTL Plate 24 | D2 | 50 | 0.338 | 0.0731 | 0.509 | 39.2 |
| Rxn #18 | FTL Plate 24 | E2 | 50 | 0.519 | 0.0731 | 0.509 | -2.3 |
| Rxn #18 | FTL Plate 24 | F2 | 50 | 0.460 | 0.0731 | 0.509 | 11.2 |
| Rxn #18 | FTL Plate 24 | G2 | 50 | 0.472 | 0.0731 | 0.509 | 8.5 |
| Rxn #18 | FTL Plate 24 | H2: FOC | - | 0.501 | 0.0731 | 0.509 | 1.8 |
| Rxn #18 | FTL Plate 24 | A3: NFC | - | 0.071 | 0.0731 | 0.509 | 100.5 |
| Rxn #18 | FTL Plate 24 | B3 | 50 | 0.437 | 0.0731 | 0.509 | 16.5 |
| Rxn #18 | FTL Plate 24 | C3 | 50 | 0.422 | 0.0731 | 0.509 | 20.0 |
| Rxn #18 | FTL Plate 24 | D3 | 50 | 0.482 | 0.0731 | 0.509 | 6.2 |
| Rxn #18 | FTL Plate 24 | E3 | 50 | 0.381 | 0.0731 | 0.509 | 29.4 |
| Rxn #18 | FTL Plate 24 | F3 | 50 | 0.477 | 0.0731 | 0.509 | 7.3 |
| Rxn #18 | FTL Plate 24 | G3 | 50 | 0.496 | 0.0731 | 0.509 | 3.0 |
| Rxn #18 | FTL Plate 24 | H3: FOC | - | 0.509 | 0.0731 | 0.509 | 0.0 |
| Rxn #18 | FTL Plate 24 | A4: NFC | - | 0.074 | 0.0731 | 0.509 | 99.8 |
| Rxn #18 | FTL Plate 24 | B4 | 50 | 0.512 | 0.0731 | 0.509 | -0.7 |
| Rxn #18 | FTL Plate 24 | C4 | 50 | 0.516 | 0.0731 | 0.509 | -1.6 |
| Rxn #18 | FTL Plate 24 | D4 | 50 | 0.481 | 0.0731 | 0.509 | 6.4 |
| Rxn #18 | FTL Plate 24 | E4 | 50 | 0.444 | 0.0731 | 0.509 | 14.9 |
| Rxn #18 | FTL Plate 24 | F4 | 50 | 0.492 | 0.0731 | 0.509 | 3.9 |
| Rxn #18 | FTL Plate 24 | G4 | 50 | 0.499 | 0.0731 | 0.509 | 2.3 |
| Rxn #18 | FTL Plate 24 | H4: FOC | - | 0.507 | 0.0731 | 0.509 | 0.5 |
| Rxn #18 | FTL Plate 24 | A5: NFC | - | 0.075 | 0.0731 | 0.509 | 99.6 |
| Rxn #18 | FTL Plate 24 | B5: NFC | - | 0.061 | 0.0731 | 0.509 | 102.8 |
| Rxn #18 | FTL Plate 24 | C5: NFC | - | 0.066 | 0.0731 | 0.509 | 101.6 |
| Rxn #18 | FTL Plate 24 | D5: NFC | - | 0.055 | 0.0731 | 0.509 | 104.2 |
| Rxn #18 | FTL Plate 24 | E5: FOC | - | 0.496 | 0.0731 | 0.509 | 3.0 |
| Rxn #18 | FTL Plate 24 | F5: FOC | - | 0.503 | 0.0731 | 0.509 | 1.4 |
| Rxn #18 | FTL Plate 24 | G5: FOC | - | 0.507 | 0.0731 | 0.509 | 0.5 |
| Rxn #18 | FTL Plate 24 | H5: FOC | - | 0.507 | 0.0731 | 0.509 | 0.5 |
| Rxn #18 | FTL Plate 24 | A6: NFC | - | 0.065 | 0.0731 | 0.509 | 101.9 |
| Rxn #18 | FTL Plate 24 | B6 | 50 | 0.515 | 0.0731 | 0.509 | -1.4 |
| Rxn #18 | FTL Plate 24 | C6 | 50 | 0.371 | 0.0731 | 0.509 | 31.7 |
| Rxn #18 | FTL Plate 24 | D6 | 50 | 0.508 | 0.0731 | 0.509 | 0.2 |
| Rxn #18 | FTL Plate 24 | E6 | 50 | 0.488 | 0.0731 | 0.509 | 4.8 |
| Rxn #18 | FTL Plate 24 | F6 | 50 | 0.510 | 0.0731 | 0.509 | -0.2 |
| Rxn #18 | FTL Plate 24 | G6 | 50 | 0.504 | 0.0731 | 0.509 | 1.1 |
| Rxn #18 | FTL Plate 24 | H6: FOC | - | 0.513 | 0.0731 | 0.509 | -0.9 |
| Rxn #18 | FTL Plate 24 | A7: NFC | - | 0.072 | 0.0731 | 0.509 | 100.3 |
| Rxn #18 | FTL Plate 24 | B7 | 50 | 0.491 | 0.0731 | 0.509 | 4.1 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #18 | FTL Plate 24 | C7 | 50 | 0.514 | 0.0731 | 0.509 | -1.1 |
| Rxn #18 | FTL Plate 24 | D7 | 50 | 0.452 | 0.0731 | 0.509 | 13.1 |
| Rxn #18 | FTL Plate 24 | E7 | 50 | 0.485 | 0.0731 | 0.509 | 5.5 |
| Rxn #18 | FTL Plate 24 | F7 | 50 | 0.503 | 0.0731 | 0.509 | 1.4 |
| Rxn #18 | FTL Plate 24 | G7 | 50 | 0.410 | 0.0731 | 0.509 | 22.7 |
| Rxn #18 | FTL Plate 24 | H7: FOC | - | 0.525 | 0.0731 | 0.509 | -3.7 |
| Rxn #18 | FTL Plate 24 | A8: NFC | - | 0.080 | 0.0731 | 0.509 | 98.4 |
| Rxn #18 | FTL Plate 24 | B8 | 50 | 0.484 | 0.0731 | 0.509 | 5.7 |
| Rxn #18 | FTL Plate 24 | C8 | 50 | 0.509 | 0.0731 | 0.509 | 0.0 |
| Rxn #18 | FTL Plate 24 | D8 | 50 | 0.457 | 0.0731 | 0.509 | 11.9 |
| Rxn #18 | FTL Plate 24 | E8 | 50 | 0.470 | 0.0731 | 0.509 | 8.9 |
| Rxn #18 | FTL Plate 24 | F8 | 50 | 0.496 | 0.0731 | 0.509 | 3.0 |
| Rxn #18 | FTL Plate 24 | G8 | 50 | 0.523 | 0.0731 | 0.509 | -3.2 |
| Rxn #18 | FTL Plate 24 | H8: FOC | - | 0.514 | 0.0731 | 0.509 | -1.1 |
| Rxn #18 | FTL Plate 24 | A9: NFC | - | 0.077 | 0.0731 | 0.509 | 99.1 |
| Rxn #18 | FTL Plate 24 | B9 | 50 | 0.505 | 0.0731 | 0.509 | 0.9 |
| Rxn #18 | FTL Plate 24 | C9 | 50 | 0.482 | 0.0731 | 0.509 | 6.2 |
| Rxn #18 | FTL Plate 24 | D9 | 50 | 0.480 | 0.0731 | 0.509 | 6.7 |
| Rxn #18 | FTL Plate 24 | E9 | 50 | 0.506 | 0.0731 | 0.509 | 0.7 |
| Rxn #18 | FTL Plate 24 | F9 | 50 | 0.447 | 0.0731 | 0.509 | 14.2 |
| Rxn #18 | FTL Plate 24 | G9 | 50 | 0.511 | 0.0731 | 0.509 | -0.5 |
| Rxn #18 | FTL Plate 24 | H9: FOC | - | 0.512 | 0.0731 | 0.509 | -0.7 |
| Rxn #18 | FTL Plate 24 | A10: NFC | - | 0.076 | 0.0731 | 0.509 | 99.3 |
| Rxn #18 | FTL Plate 24 | B10 | 50 | 0.495 | 0.0731 | 0.509 | 3.2 |
| Rxn #18 | FTL Plate 24 | C10 | 50 | 0.470 | 0.0731 | 0.509 | 8.9 |
| Rxn #18 | FTL Plate 24 | D10 | 50 | 0.484 | 0.0731 | 0.509 | 5.7 |
| Rxn #18 | FTL Plate 24 | E10 | 50 | 0.460 | 0.0731 | 0.509 | 11.2 |
| Rxn #18 | FTL Plate 24 | F10 | 50 | 0.467 | 0.0731 | 0.509 | 9.6 |
| Rxn #18 | FTL Plate 24 | G10 | 50 | 0.473 | 0.0731 | 0.509 | 8.3 |
| Rxn #18 | FTL Plate 24 | H10: FOC | - | 0.519 | 0.0731 | 0.509 | -2.3 |
| Rxn #18 | FTL Plate 24 | A11: NFC | - | 0.084 | 0.0731 | 0.509 | 97.5 |
| Rxn #18 | FTL Plate 24 | B11 | 50 | 0.487 | 0.0731 | 0.509 | 5.0 |
| Rxn #18 | FTL Plate 24 | C11 | 50 | 0.476 | 0.0731 | 0.509 | 7.6 |
| Rxn #18 | FTL Plate 24 | D11 | 50 | 0.518 | 0.0731 | 0.509 | -2.1 |
| Rxn #18 | FTL Plate 24 | E11 | 50 | 0.499 | 0.0731 | 0.509 | 2.3 |
| Rxn #18 | FTL Plate 24 | F11 | 50 | 0.505 | 0.0731 | 0.509 | 0.9 |
| Rxn #18 | FTL Plate 24 | G11 | 50 | 0.456 | 0.0731 | 0.509 | 12.2 |
| Rxn #18 | FTL Plate 24 | H11: FOC | - | 0.509 | 0.0731 | 0.509 | 0.0 |
| Rxn #18 | FTL Plate 24 | A12: NFC | - | 0.089 | 0.0731 | 0.509 | 96.4 |
| Rxn #18 | FTL Plate 24 | H12: FOC | - | 0.506 | 0.0731 | 0.509 | 0.7 |
| Rxn #19 | FTL Plate 9 | A1: NFC | - | 0.079 | 0.0699 | 0.549 | 98.1 |
| Rxn #19 | FTL Plate 9 | B1 | 50 | 0.528 | 0.0699 | 0.549 | 4.4 |
| Rxn #19 | FTL Plate 9 | C1 | 50 | 0.532 | 0.0699 | 0.549 | 3.5 |
| Rxn #19 | FTL Plate 9 | D1 | 50 | 0.492 | 0.0699 | 0.549 | 11.9 |
| Rxn #19 | FTL Plate 9 | E1 | 50 | 0.444 | 0.0699 | 0.549 | 21.9 |
| Rxn #19 | FTL Plate 9 | F1 | 50 | 0.502 | 0.0699 | 0.549 | 9.8 |
| Rxn #19 | FTL Plate 9 | G1 | 50 | 0.522 | 0.0699 | 0.549 | 5.6 |
| Rxn #19 | FTL Plate 9 | H1: FOC | - | 0.536 | 0.0699 | 0.549 | 2.7 |
| Rxn #19 | FTL Plate 9 | A2: NFC | - | 0.071 | 0.0699 | 0.549 | 99.8 |
| Rxn #19 | FTL Plate 9 | B2 | 50 | 0.534 | 0.0699 | 0.549 | 3.1 |
| Rxn #19 | FTL Plate 9 | C2 | 50 | 0.516 | 0.0699 | 0.549 | 6.9 |
| Rxn #19 | FTL Plate 9 | D2 | 50 | 0.572 | 0.0699 | 0.549 | -4.8 |
| Rxn #19 | FTL Plate 9 | E2 | 50 | 0.545 | 0.0699 | 0.549 | 0.8 |
| Rxn #19 | FTL Plate 9 | F2 | 50 | 0.543 | 0.0699 | 0.549 | 1.3 |
| Rxn #19 | FTL Plate 9 | G2 | 50 | 0.548 | 0.0699 | 0.549 | 0.2 |
| Rxn #19 | FTL Plate 9 | H2: FOC | - | 0.568 | 0.0699 | 0.549 | -4.0 |
| Rxn #19 | FTL Plate 9 | A3: NFC | - | 0.075 | 0.0699 | 0.549 | 98.9 |
| Rxn #19 | FTL Plate 9 | B3 | 50 | 0.575 | 0.0699 | 0.549 | -5.4 |
| Rxn #19 | FTL Plate 9 | C3 | 50 | 0.504 | 0.0699 | 0.549 | 9.4 |
| Rxn #19 | FTL Plate 9 | D3 | 50 | 0.559 | 0.0699 | 0.549 | -2.1 |
| Rxn #19 | FTL Plate 9 | E3 | 50 | 0.550 | 0.0699 | 0.549 | -0.2 |
| Rxn #19 | FTL Plate 9 | F3 | 50 | 0.549 | 0.0699 | 0.549 | 0.0 |
| Rxn #19 | FTL Plate 9 | G3 | 50 | 0.514 | 0.0699 | 0.549 | 7.3 |
| Rxn #19 | FTL Plate 9 | H3: FOC | - | 0.548 | 0.0699 | 0.549 | 0.2 |
| Rxn #19 | FTL Plate 9 | A4: NFC | - | 0.070 | 0.0699 | 0.549 | 100.0 |
| Rxn #19 | FTL Plate 9 | B4 | 50 | 0.530 | 0.0699 | 0.549 | 4.0 |
| Rxn #19 | FTL Plate 9 | C4 | 50 | 0.537 | 0.0699 | 0.549 | 2.5 |
| Rxn #19 | FTL Plate 9 | D4 | 50 | 0.505 | 0.0699 | 0.549 | 9.2 |
| Rxn #19 | FTL Plate 9 | E4 | 50 | 0.523 | 0.0699 | 0.549 | 5.4 |
| Rxn #19 | FTL Plate 9 | F4 | 50 | 0.524 | 0.0699 | 0.549 | 5.2 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #19 | FTL Plate 9 | G4 | 50 | 0.526 | 0.0699 | 0.549 | 4.8 |
| Rxn #19 | FTL Plate 9 | H4: FOC | - | 0.541 | 0.0699 | 0.549 | 1.7 |
| Rxn #19 | FTL Plate 9 | A5: NFC | - | 0.070 | 0.0699 | 0.549 | 100.0 |
| Rxn #19 | FTL Plate 9 | B5: NFC | - | 0.056 | 0.0699 | 0.549 | 102.9 |
| Rxn #19 | FTL Plate 9 | C5: NFC | - | 0.051 | 0.0699 | 0.549 | 103.9 |
| Rxn #19 | FTL Plate 9 | D5: NFC | - | 0.056 | 0.0699 | 0.549 | 102.9 |
| Rxn #19 | FTL Plate 9 | E5: FOC | - | 0.542 | 0.0699 | 0.549 | 1.5 |
| Rxn #19 | FTL Plate 9 | F5: FOC | - | 0.536 | 0.0699 | 0.549 | 2.7 |
| Rxn #19 | FTL Plate 9 | G5: FOC | - | 0.539 | 0.0699 | 0.549 | 2.1 |
| Rxn #19 | FTL Plate 9 | H5: FOC | - | 0.545 | 0.0699 | 0.549 | 0.8 |
| Rxn #19 | FTL Plate 9 | A6: NFC | - | 0.072 | 0.0699 | 0.549 | 99.6 |
| Rxn #19 | FTL Plate 9 | B6 | 50 | 0.465 | 0.0699 | 0.549 | 17.5 |
| Rxn #19 | FTL Plate 9 | C6 | 50 | 0.526 | 0.0699 | 0.549 | 4.8 |
| Rxn #19 | FTL Plate 9 | D6 | 50 | 0.540 | 0.0699 | 0.549 | 1.9 |
| Rxn #19 | FTL Plate 9 | E6 | 50 | 0.509 | 0.0699 | 0.549 | 8.3 |
| Rxn #19 | FTL Plate 9 | F6 | 50 | 0.513 | 0.0699 | 0.549 | 7.5 |
| Rxn #19 | FTL Plate 9 | G6 | 50 | 0.511 | 0.0699 | 0.549 | 7.9 |
| Rxn #19 | FTL Plate 9 | H6: FOC | - | 0.571 | 0.0699 | 0.549 | -4.6 |
| Rxn #19 | FTL Plate 9 | A7: NFC | - | 0.073 | 0.0699 | 0.549 | 99.4 |
| Rxn #19 | FTL Plate 9 | B7 | 50 | 0.558 | 0.0699 | 0.549 | -1.9 |
| Rxn #19 | FTL Plate 9 | C7 | 50 | 0.529 | 0.0699 | 0.549 | 4.2 |
| Rxn #19 | FTL Plate 9 | D7 | 50 | 0.502 | 0.0699 | 0.549 | 9.8 |
| Rxn #19 | FTL Plate 9 | E7 | 50 | 0.528 | 0.0699 | 0.549 | 4.4 |
| Rxn #19 | FTL Plate 9 | F7 | 50 | 0.524 | 0.0699 | 0.549 | 5.2 |
| Rxn #19 | FTL Plate 9 | G7 | 50 | 0.536 | 0.0699 | 0.549 | 2.7 |
| Rxn #19 | FTL Plate 9 | H7: FOC | - | 0.560 | 0.0699 | 0.549 | -2.3 |
| Rxn #19 | FTL Plate 9 | A8: NFC | - | 0.070 | 0.0699 | 0.549 | 100.0 |
| Rxn #19 | FTL Plate 9 | B8 | 50 | 0.541 | 0.0699 | 0.549 | 1.7 |
| Rxn #19 | FTL Plate 9 | C8 | 50 | 0.473 | 0.0699 | 0.549 | 15.9 |
| Rxn #19 | FTL Plate 9 | D8 | 50 | 0.534 | 0.0699 | 0.549 | 3.1 |
| Rxn #19 | FTL Plate 9 | E8 | 50 | 0.523 | 0.0699 | 0.549 | 5.4 |
| Rxn #19 | FTL Plate 9 | F8 | 50 | 0.539 | 0.0699 | 0.549 | 2.1 |
| Rxn #19 | FTL Plate 9 | G8 | 50 | 0.490 | 0.0699 | 0.549 | 12.3 |
| Rxn #19 | FTL Plate 9 | H8: FOC | - | 0.565 | 0.0699 | 0.549 | -3.3 |
| Rxn #19 | FTL Plate 9 | A9: NFC | - | 0.070 | 0.0699 | 0.549 | 100.0 |
| Rxn #19 | FTL Plate 9 | B9 | 50 | 0.540 | 0.0699 | 0.549 | 1.9 |
| Rxn #19 | FTL Plate 9 | C9 | 50 | 0.558 | 0.0699 | 0.549 | -1.9 |
| Rxn #19 | FTL Plate 9 | D9 | 50 | 0.554 | 0.0699 | 0.549 | -1.0 |
| Rxn #19 | FTL Plate 9 | E9 | 50 | 0.485 | 0.0699 | 0.549 | 13.4 |
| Rxn #19 | FTL Plate 9 | F9 | 50 | 0.562 | 0.0699 | 0.549 | -2.7 |
| Rxn #19 | FTL Plate 9 | G9 | 50 | 0.551 | 0.0699 | 0.549 | -0.4 |
| Rxn #19 | FTL Plate 9 | H9: FOC | - | 0.549 | 0.0699 | 0.549 | 0.0 |
| Rxn #19 | FTL Plate 9 | A10: NFC | - | 0.083 | 0.0699 | 0.549 | 97.3 |
| Rxn #19 | FTL Plate 9 | B10 | 50 | 0.554 | 0.0699 | 0.549 | -1.0 |
| Rxn #19 | FTL Plate 9 | C10 | 50 | 0.530 | 0.0699 | 0.549 | 4.0 |
| Rxn #19 | FTL Plate 9 | D10 | 50 | 0.542 | 0.0699 | 0.549 | 1.5 |
| Rxn #19 | FTL Plate 9 | E10 | 50 | 0.145 | 0.0699 | 0.549 | 84.3 |
| Rxn #19 | FTL Plate 9 | F10 | 50 | 0.470 | 0.0699 | 0.549 | 16.5 |
| Rxn #19 | FTL Plate 9 | G10 | 50 | 0.562 | 0.0699 | 0.549 | -2.7 |
| Rxn #19 | FTL Plate 9 | H10: FOC | - | 0.556 | 0.0699 | 0.549 | -1.5 |
| Rxn #19 | FTL Plate 9 | A11: NFC | - | 0.072 | 0.0699 | 0.549 | 99.6 |
| Rxn #19 | FTL Plate 9 | B11 | 50 | 0.526 | 0.0699 | 0.549 | 4.8 |
| Rxn #19 | FTL Plate 9 | C11 | 50 | 0.518 | 0.0699 | 0.549 | 6.5 |
| Rxn #19 | FTL Plate 9 | D11 | 50 | 0.550 | 0.0699 | 0.549 | -0.2 |
| Rxn #19 | FTL Plate 9 | E11 | 50 | 0.514 | 0.0699 | 0.549 | 7.3 |
| Rxn #19 | FTL Plate 9 | F11 | 50 | 0.509 | 0.0699 | 0.549 | 8.3 |
| Rxn #19 | FTL Plate 9 | G11 | 50 | 0.128 | 0.0699 | 0.549 | 87.9 |
| Rxn #19 | FTL Plate 9 | H11: FOC | - | 0.559 | 0.0699 | 0.549 | -2.1 |
| Rxn #19 | FTL Plate 9 | A12: NFC | - | 0.080 | 0.0699 | 0.549 | 97.9 |
| Rxn #19 | FTL Plate 9 | H12: FOC | - | 0.514 | 0.0699 | 0.549 | 7.3 |
| Rxn #20 | FTL Plate 11 | A1: NFC | - | 0.070 | 0.0689 | 0.580 | 99.8 |
| Rxn #20 | FTL Plate 11 | B1 | 50 | 0.543 | 0.0689 | 0.580 | 7.2 |
| Rxn #20 | FTL Plate 11 | C1 | 50 | 0.503 | 0.0689 | 0.580 | 15.1 |
| Rxn #20 | FTL Plate 11 | D1 | 50 | 0.529 | 0.0689 | 0.580 | 10.0 |
| Rxn #20 | FTL Plate 11 | E1 | 50 | 0.537 | 0.0689 | 0.580 | 8.4 |
| Rxn #20 | FTL Plate 11 | F1 | 50 | 0.557 | 0.0689 | 0.580 | 4.5 |
| Rxn #20 | FTL Plate 11 | G1 | 50 | 0.471 | 0.0689 | 0.580 | 21.3 |
| Rxn #20 | FTL Plate 11 | H1: FOC | - | 0.601 | 0.0689 | 0.580 | -4.1 |
| Rxn #20 | FTL Plate 11 | A2: NFC | - | 0.079 | 0.0689 | 0.580 | 98.0 |
| Rxn #20 | FTL Plate 11 | B2 | 50 | 0.508 | 0.0689 | 0.580 | 14.1 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #20 | FTL Plate 11 | C2 | 50 | 0.505 | 0.0689 | 0.580 | 14.7 |
| Rxn #20 | FTL Plate 11 | D2 | 50 | 0.542 | 0.0689 | 0.580 | 7.4 |
| Rxn #20 | FTL Plate 11 | E2 | 50 | 0.577 | 0.0689 | 0.580 | 0.6 |
| Rxn #20 | FTL Plate 11 | F2 | 50 | 0.472 | 0.0689 | 0.580 | 21.1 |
| Rxn #20 | FTL Plate 11 | G2 | 50 | 0.550 | 0.0689 | 0.580 | 5.9 |
| Rxn #20 | FTL Plate 11 | H2: FOC | - | 0.590 | 0.0689 | 0.580 | -2.0 |
| Rxn #20 | FTL Plate 11 | A3: NFC | - | 0.074 | 0.0689 | 0.580 | 99.0 |
| Rxn #20 | FTL Plate 11 | B3 | 50 | 0.556 | 0.0689 | 0.580 | 4.7 |
| Rxn #20 | FTL Plate 11 | C3 | 50 | 0.571 | 0.0689 | 0.580 | 1.8 |
| Rxn #20 | FTL Plate 11 | D3 | 50 | 0.491 | 0.0689 | 0.580 | 17.4 |
| Rxn #20 | FTL Plate 11 | E3 | 50 | 0.505 | 0.0689 | 0.580 | 14.7 |
| Rxn #20 | FTL Plate 11 | F3 | 50 | 0.559 | 0.0689 | 0.580 | 4.1 |
| Rxn #20 | FTL Plate 11 | G3 | 50 | 0.568 | 0.0689 | 0.580 | 2.3 |
| Rxn #20 | FTL Plate 11 | H3: FOC | - | 0.573 | 0.0689 | 0.580 | 1.4 |
| Rxn #20 | FTL Plate 11 | A4: NFC | - | 0.067 | 0.0689 | 0.580 | 100.4 |
| Rxn #20 | FTL Plate 11 | B4 | 50 | 0.558 | 0.0689 | 0.580 | 4.3 |
| Rxn #20 | FTL Plate 11 | C4 | 50 | 0.565 | 0.0689 | 0.580 | 2.9 |
| Rxn #20 | FTL Plate 11 | D4 | 50 | 0.541 | 0.0689 | 0.580 | 7.6 |
| Rxn #20 | FTL Plate 11 | E4 | 50 | 0.582 | 0.0689 | 0.580 | -0.4 |
| Rxn #20 | FTL Plate 11 | F4 | 50 | 0.503 | 0.0689 | 0.580 | 15.1 |
| Rxn #20 | FTL Plate 11 | G4 | 50 | 0.583 | 0.0689 | 0.580 | -0.6 |
| Rxn #20 | FTL Plate 11 | H4: FOC | - | 0.581 | 0.0689 | 0.580 | -0.2 |
| Rxn #20 | FTL Plate 11 | A5: NFC | - | 0.071 | 0.0689 | 0.580 | 99.6 |
| Rxn #20 | FTL Plate 11 | B5: NFC | - | 0.054 | 0.0689 | 0.580 | 102.9 |
| Rxn #20 | FTL Plate 11 | C5: NFC | - | 0.062 | 0.0689 | 0.580 | 101.4 |
| Rxn #20 | FTL Plate 11 | D5: NFC | - | 0.056 | 0.0689 | 0.580 | 102.5 |
| Rxn #20 | FTL Plate 11 | E5: FOC | - | 0.557 | 0.0689 | 0.580 | 4.5 |
| Rxn #20 | FTL Plate 11 | F5: FOC | - | 0.573 | 0.0689 | 0.580 | 1.4 |
| Rxn #20 | FTL Plate 11 | G5: FOC | - | 0.580 | 0.0689 | 0.580 | 0.0 |
| Rxn #20 | FTL Plate 11 | H5: FOC | - | 0.580 | 0.0689 | 0.580 | 0.0 |
| Rxn #20 | FTL Plate 11 | A6: NFC | - | 0.075 | 0.0689 | 0.580 | 98.8 |
| Rxn #20 | FTL Plate 11 | B6 | 50 | 0.468 | 0.0689 | 0.580 | 21.9 |
| Rxn #20 | FTL Plate 11 | C6 | 50 | 0.540 | 0.0689 | 0.580 | 7.8 |
| Rxn #20 | FTL Plate 11 | D6 | 50 | 0.562 | 0.0689 | 0.580 | 3.5 |
| Rxn #20 | FTL Plate 11 | E6 | 50 | 0.564 | 0.0689 | 0.580 | 3.1 |
| Rxn #20 | FTL Plate 11 | F6 | 50 | 0.542 | 0.0689 | 0.580 | 7.4 |
| Rxn #20 | FTL Plate 11 | G6 | 50 | 0.551 | 0.0689 | 0.580 | 5.7 |
| Rxn #20 | FTL Plate 11 | H6: FOC | - | 0.582 | 0.0689 | 0.580 | -0.4 |
| Rxn #20 | FTL Plate 11 | A7: NFC | - | 0.071 | 0.0689 | 0.580 | 99.6 |
| Rxn #20 | FTL Plate 11 | B7 | 50 | 0.538 | 0.0689 | 0.580 | 8.2 |
| Rxn #20 | FTL Plate 11 | C7 | 50 | 0.560 | 0.0689 | 0.580 | 3.9 |
| Rxn #20 | FTL Plate 11 | D7 | 50 | 0.510 | 0.0689 | 0.580 | 13.7 |
| Rxn #20 | FTL Plate 11 | E7 | 50 | 0.526 | 0.0689 | 0.580 | 10.6 |
| Rxn #20 | FTL Plate 11 | F7 | 50 | 0.545 | 0.0689 | 0.580 | 6.8 |
| Rxn #20 | FTL Plate 11 | G7 | 50 | 0.561 | 0.0689 | 0.580 | 3.7 |
| Rxn #20 | FTL Plate 11 | H7: FOC | - | 0.567 | 0.0689 | 0.580 | 2.5 |
| Rxn #20 | FTL Plate 11 | A8: NFC | - | 0.062 | 0.0689 | 0.580 | 101.4 |
| Rxn #20 | FTL Plate 11 | B8 | 50 | 0.563 | 0.0689 | 0.580 | 3.3 |
| Rxn #20 | FTL Plate 11 | C8 | 50 | 0.494 | 0.0689 | 0.580 | 16.8 |
| Rxn #20 | FTL Plate 11 | D8 | 50 | 0.564 | 0.0689 | 0.580 | 3.1 |
| Rxn #20 | FTL Plate 11 | E8 | 50 | 0.531 | 0.0689 | 0.580 | 9.6 |
| Rxn #20 | FTL Plate 11 | F8 | 50 | 0.565 | 0.0689 | 0.580 | 2.9 |
| Rxn #20 | FTL Plate 11 | G8 | 50 | 0.546 | 0.0689 | 0.580 | 6.7 |
| Rxn #20 | FTL Plate 11 | H8: FOC | - | 0.585 | 0.0689 | 0.580 | -1.0 |
| Rxn #20 | FTL Plate 11 | A9: NFC | - | 0.067 | 0.0689 | 0.580 | 100.4 |
| Rxn #20 | FTL Plate 11 | B9 | 50 | 0.548 | 0.0689 | 0.580 | 6.3 |
| Rxn #20 | FTL Plate 11 | C9 | 50 | 0.562 | 0.0689 | 0.580 | 3.5 |
| Rxn #20 | FTL Plate 11 | D9 | 50 | 0.572 | 0.0689 | 0.580 | 1.6 |
| Rxn #20 | FTL Plate 11 | E9 | 50 | 0.572 | 0.0689 | 0.580 | 1.6 |
| Rxn #20 | FTL Plate 11 | F9 | 50 | 0.558 | 0.0689 | 0.580 | 4.3 |
| Rxn #20 | FTL Plate 11 | G9 | 50 | 0.565 | 0.0689 | 0.580 | 2.9 |
| Rxn #20 | FTL Plate 11 | H9: FOC | - | 0.575 | 0.0689 | 0.580 | 1.0 |
| Rxn #20 | FTL Plate 11 | A10: NFC | - | 0.075 | 0.0689 | 0.580 | 98.8 |
| Rxn #20 | FTL Plate 11 | B10 | 50 | 0.577 | 0.0689 | 0.580 | 0.6 |
| Rxn #20 | FTL Plate 11 | C10 | 50 | 0.530 | 0.0689 | 0.580 | 9.8 |
| Rxn #20 | FTL Plate 11 | D10 | 50 | 0.529 | 0.0689 | 0.580 | 10.0 |
| Rxn #20 | FTL Plate 11 | E10 | 50 | 0.583 | 0.0689 | 0.580 | -0.6 |
| Rxn #20 | FTL Plate 11 | F10 | 50 | 0.577 | 0.0689 | 0.580 | 0.6 |
| Rxn #20 | FTL Plate 11 | G10 | 50 | 0.567 | 0.0689 | 0.580 | 2.5 |
| Rxn #20 | FTL Plate 11 | H10: FOC | - | 0.579 | 0.0689 | 0.580 | 0.2 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #20 | FTL Plate 11 | A11: NFC | - | 0.076 | 0.0689 | 0.580 | 98.6 |
| Rxn #20 | FTL Plate 11 | B11 | 50 | 0.563 | 0.0689 | 0.580 | 3.3 |
| Rxn #20 | FTL Plate 11 | C11 | 50 | 0.544 | 0.0689 | 0.580 | 7.0 |
| Rxn #20 | FTL Plate 11 | D11 | 50 | 0.565 | 0.0689 | 0.580 | 2.9 |
| Rxn #20 | FTL Plate 11 | E11 | 50 | 0.543 | 0.0689 | 0.580 | 7.2 |
| Rxn #20 | FTL Plate 11 | F11 | 50 | 0.524 | 0.0689 | 0.580 | 11.0 |
| Rxn #20 | FTL Plate 11 | G11 | 50 | 0.583 | 0.0689 | 0.580 | -0.6 |
| Rxn #20 | FTL Plate 11 | H11: FOC | - | 0.589 | 0.0689 | 0.580 | -1.8 |
| Rxn #20 | FTL Plate 11 | A12: NFC | - | 0.074 | 0.0689 | 0.580 | 99.0 |
| Rxn #20 | FTL Plate 11 | H12: FOC | - | 0.582 | 0.0689 | 0.580 | -0.4 |
| Rxn #21 | FTL Plate 12 | A1: NFC | - | 0.053 | 0.0535 | 0.516 | 100.1 |
| Rxn #21 | FTL Plate 12 | B1 | 50 | 0.504 | 0.0535 | 0.516 | 2.6 |
| Rxn #21 | FTL Plate 12 | C1 | 50 | 0.431 | 0.0535 | 0.516 | 18.4 |
| Rxn #21 | FTL Plate 12 | D1 | 50 | 0.494 | 0.0535 | 0.516 | 4.8 |
| Rxn #21 | FTL Plate 12 | E1 | 50 | 0.522 | 0.0535 | 0.516 | -1.3 |
| Rxn #21 | FTL Plate 12 | F1 | 50 | 0.504 | 0.0535 | 0.516 | 2.6 |
| Rxn #21 | FTL Plate 12 | G1 | 50 | 0.471 | 0.0535 | 0.516 | 9.7 |
| Rxn #21 | FTL Plate 12 | H1: FOC | - | 0.491 | 0.0535 | 0.516 | 5.4 |
| Rxn #21 | FTL Plate 12 | A2: NFC | - | 0.053 | 0.0535 | 0.516 | 100.1 |
| Rxn #21 | FTL Plate 12 | B2 | 50 | 0.447 | 0.0535 | 0.516 | 14.9 |
| Rxn #21 | FTL Plate 12 | C2 | 50 | 0.523 | 0.0535 | 0.516 | -1.5 |
| Rxn #21 | FTL Plate 12 | D2 | 50 | 0.497 | 0.0535 | 0.516 | 4.1 |
| Rxn #21 | FTL Plate 12 | E2 | 50 | 0.518 | 0.0535 | 0.516 | -0.4 |
| Rxn #21 | FTL Plate 12 | F2 | 50 | 0.460 | 0.0535 | 0.516 | 12.1 |
| Rxn #21 | FTL Plate 12 | G2 | 50 | 0.509 | 0.0535 | 0.516 | 1.5 |
| Rxn #21 | FTL Plate 12 | H2: FOC | - | 0.509 | 0.0535 | 0.516 | 1.5 |
| Rxn #21 | FTL Plate 12 | A3: NFC | - | 0.059 | 0.0535 | 0.516 | 98.8 |
| Rxn #21 | FTL Plate 12 | B3 | 50 | 0.509 | 0.0535 | 0.516 | 1.5 |
| Rxn #21 | FTL Plate 12 | C3 | 50 | 0.530 | 0.0535 | 0.516 | -3.0 |
| Rxn #21 | FTL Plate 12 | D3 | 50 | 0.478 | 0.0535 | 0.516 | 8.2 |
| Rxn #21 | FTL Plate 12 | E3 | 50 | 0.498 | 0.0535 | 0.516 | 3.9 |
| Rxn #21 | FTL Plate 12 | F3 | 50 | 0.512 | 0.0535 | 0.516 | 0.9 |
| Rxn #21 | FTL Plate 12 | G3 | 50 | 0.539 | 0.0535 | 0.516 | -5.0 |
| Rxn #21 | FTL Plate 12 | H3: FOC | - | 0.521 | 0.0535 | 0.516 | -1.1 |
| Rxn #21 | FTL Plate 12 | A4: NFC | - | 0.053 | 0.0535 | 0.516 | 100.1 |
| Rxn #21 | FTL Plate 12 | B4 | 50 | 0.505 | 0.0535 | 0.516 | 2.4 |
| Rxn #21 | FTL Plate 12 | C4 | 50 | 0.512 | 0.0535 | 0.516 | 0.9 |
| Rxn #21 | FTL Plate 12 | D4 | 50 | 0.503 | 0.0535 | 0.516 | 2.8 |
| Rxn #21 | FTL Plate 12 | E4 | 50 | 0.430 | 0.0535 | 0.516 | 18.6 |
| Rxn #21 | FTL Plate 12 | F4 | 50 | 0.498 | 0.0535 | 0.516 | 3.9 |
| Rxn #21 | FTL Plate 12 | G4 | 50 | 0.490 | 0.0535 | 0.516 | 5.6 |
| Rxn #21 | FTL Plate 12 | H4: FOC | - | 0.527 | 0.0535 | 0.516 | -2.4 |
| Rxn #21 | FTL Plate 12 | A5: NFC | - | 0.054 | 0.0535 | 0.516 | 99.9 |
| Rxn #21 | FTL Plate 12 | B5: NFC | - | 0.042 | 0.0535 | 0.516 | 102.5 |
| Rxn #21 | FTL Plate 12 | C5: NFC | - | 0.045 | 0.0535 | 0.516 | 101.8 |
| Rxn #21 | FTL Plate 12 | D5: NFC | - | 0.036 | 0.0535 | 0.516 | 103.8 |
| Rxn #21 | FTL Plate 12 | E5: FOC | - | 0.517 | 0.0535 | 0.516 | -0.2 |
| Rxn #21 | FTL Plate 12 | F5: FOC | - | 0.496 | 0.0535 | 0.516 | 4.3 |
| Rxn #21 | FTL Plate 12 | G5: FOC | - | 0.525 | 0.0535 | 0.516 | -1.9 |
| Rxn #21 | FTL Plate 12 | H5: FOC | - | 0.510 | 0.0535 | 0.516 | 1.3 |
| Rxn #21 | FTL Plate 12 | A6: NFC | - | 0.054 | 0.0535 | 0.516 | 99.9 |
| Rxn #21 | FTL Plate 12 | B6 | 50 | 0.505 | 0.0535 | 0.516 | 2.4 |
| Rxn #21 | FTL Plate 12 | C6 | 50 | 0.473 | 0.0535 | 0.516 | 9.3 |
| Rxn #21 | FTL Plate 12 | D6 | 50 | 0.496 | 0.0535 | 0.516 | 4.3 |
| Rxn #21 | FTL Plate 12 | E6 | 50 | 0.509 | 0.0535 | 0.516 | 1.5 |
| Rxn #21 | FTL Plate 12 | F6 | 50 | 0.460 | 0.0535 | 0.516 | 12.1 |
| Rxn #21 | FTL Plate 12 | G6 | 50 | 0.445 | 0.0535 | 0.516 | 15.4 |
| Rxn #21 | FTL Plate 12 | H6: FOC | - | 0.504 | 0.0535 | 0.516 | 2.6 |
| Rxn #21 | FTL Plate 12 | A7: NFC | - | 0.054 | 0.0535 | 0.516 | 99.9 |
| Rxn #21 | FTL Plate 12 | B7 | 50 | 0.502 | 0.0535 | 0.516 | 3.0 |
| Rxn #21 | FTL Plate 12 | C7 | 50 | 0.483 | 0.0535 | 0.516 | 7.1 |
| Rxn #21 | FTL Plate 12 | D7 | 50 | 0.507 | 0.0535 | 0.516 | 1.9 |
| Rxn #21 | FTL Plate 12 | E7 | 50 | 0.470 | 0.0535 | 0.516 | 9.9 |
| Rxn #21 | FTL Plate 12 | F7 | 50 | 0.542 | 0.0535 | 0.516 | -5.6 |
| Rxn #21 | FTL Plate 12 | G7 | 50 | 0.517 | 0.0535 | 0.516 | -0.2 |
| Rxn #21 | FTL Plate 12 | H7: FOC | - | 0.542 | 0.0535 | 0.516 | -5.6 |
| Rxn #21 | FTL Plate 12 | A8: NFC | - | 0.057 | 0.0535 | 0.516 | 99.2 |
| Rxn #21 | FTL Plate 12 | B8 | 50 | 0.508 | 0.0535 | 0.516 | 1.7 |
| Rxn #21 | FTL Plate 12 | C8 | 50 | 0.498 | 0.0535 | 0.516 | 3.9 |
| Rxn #21 | FTL Plate 12 | D8 | 50 | 0.507 | 0.0535 | 0.516 | 1.9 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #21 | FTL Plate 12 | E8 | 50 | 0.409 | 0.0535 | 0.516 | 23.1 |
| Rxn #21 | FTL Plate 12 | F8 | 50 | 0.502 | 0.0535 | 0.516 | 3.0 |
| Rxn #21 | FTL Plate 12 | G8 | 50 | 0.463 | 0.0535 | 0.516 | 11.5 |
| Rxn #21 | FTL Plate 12 | H8: FOC | - | 0.527 | 0.0535 | 0.516 | -2.4 |
| Rxn #21 | FTL Plate 12 | A9: NFC | - | 0.068 | 0.0535 | 0.516 | 96.9 |
| Rxn #21 | FTL Plate 12 | B9 | 50 | 0.481 | 0.0535 | 0.516 | 7.6 |
| Rxn #21 | FTL Plate 12 | C9 | 50 | 0.505 | 0.0535 | 0.516 | 2.4 |
| Rxn #21 | FTL Plate 12 | D9 | 50 | 0.483 | 0.0535 | 0.516 | 7.1 |
| Rxn #21 | FTL Plate 12 | E9 | 50 | 0.470 | 0.0535 | 0.516 | 9.9 |
| Rxn #21 | FTL Plate 12 | F9 | 50 | 0.509 | 0.0535 | 0.516 | 1.5 |
| Rxn #21 | FTL Plate 12 | G9 | 50 | 0.481 | 0.0535 | 0.516 | 7.6 |
| Rxn #21 | FTL Plate 12 | H9: FOC | - | 0.520 | 0.0535 | 0.516 | -0.9 |
| Rxn #21 | FTL Plate 12 | A10: NFC | - | 0.059 | 0.0535 | 0.516 | 98.8 |
| Rxn #21 | FTL Plate 12 | B10 | 50 | 0.485 | 0.0535 | 0.516 | 6.7 |
| Rxn #21 | FTL Plate 12 | C10 | 50 | 0.513 | 0.0535 | 0.516 | 0.6 |
| Rxn #21 | FTL Plate 12 | D10 | 50 | 0.516 | 0.0535 | 0.516 | 0.0 |
| Rxn #21 | FTL Plate 12 | E10 | 50 | 0.489 | 0.0535 | 0.516 | 5.8 |
| Rxn #21 | FTL Plate 12 | F10 | 50 | 0.481 | 0.0535 | 0.516 | 7.6 |
| Rxn #21 | FTL Plate 12 | G10 | 50 | 0.519 | 0.0535 | 0.516 | -0.6 |
| Rxn #21 | FTL Plate 12 | H10: FOC | - | 0.539 | 0.0535 | 0.516 | -5.0 |
| Rxn #21 | FTL Plate 12 | A11: NFC | - | 0.059 | 0.0535 | 0.516 | 98.8 |
| Rxn #21 | FTL Plate 12 | B11 | 50 | 0.494 | 0.0535 | 0.516 | 4.8 |
| Rxn #21 | FTL Plate 12 | C11 | 50 | 0.515 | 0.0535 | 0.516 | 0.2 |
| Rxn #21 | FTL Plate 12 | D11 | 50 | 0.481 | 0.0535 | 0.516 | 7.6 |
| Rxn #21 | FTL Plate 12 | E11 | 50 | 0.524 | 0.0535 | 0.516 | -1.7 |
| Rxn #21 | FTL Plate 12 | F11 | 50 | 0.489 | 0.0535 | 0.516 | 5.8 |
| Rxn #21 | FTL Plate 12 | G11 | 50 | 0.490 | 0.0535 | 0.516 | 5.6 |
| Rxn #21 | FTL Plate 12 | H11: FOC | - | 0.525 | 0.0535 | 0.516 | -1.9 |
| Rxn #21 | FTL Plate 12 | A12: NFC | - | 0.056 | 0.0535 | 0.516 | 99.5 |
| Rxn #21 | FTL Plate 12 | H12: FOC | - | 0.494 | 0.0535 | 0.516 | 4.8 |
| Rxn #22 | FTL Plate 26 | A1: NFC | - | 0.063 | 0.0611 | 0.524 | 99.6 |
| Rxn #22 | FTL Plate 26 | B1 | 50 | 0.467 | 0.0611 | 0.524 | 12.3 |
| Rxn #22 | FTL Plate 26 | C1 | 50 | 0.472 | 0.0611 | 0.524 | 11.2 |
| Rxn #22 | FTL Plate 26 | D1 | 50 | 0.518 | 0.0611 | 0.524 | 1.3 |
| Rxn #22 | FTL Plate 26 | E1 | 50 | 0.488 | 0.0611 | 0.524 | 7.8 |
| Rxn #22 | FTL Plate 26 | F1 | 50 | 0.502 | 0.0611 | 0.524 | 4.8 |
| Rxn #22 | FTL Plate 26 | G1 | 50 | 0.464 | 0.0611 | 0.524 | 13.0 |
| Rxn #22 | FTL Plate 26 | H1: FOC | - | 0.521 | 0.0611 | 0.524 | 0.6 |
| Rxn #22 | FTL Plate 26 | A2: NFC | - | 0.062 | 0.0611 | 0.524 | 99.8 |
| Rxn #22 | FTL Plate 26 | B2 | 50 | 0.513 | 0.0611 | 0.524 | 2.4 |
| Rxn #22 | FTL Plate 26 | C2 | 50 | 0.531 | 0.0611 | 0.524 | -1.5 |
| Rxn #22 | FTL Plate 26 | D2 | 50 | 0.497 | 0.0611 | 0.524 | 5.8 |
| Rxn #22 | FTL Plate 26 | E2 | 50 | 0.484 | 0.0611 | 0.524 | 8.6 |
| Rxn #22 | FTL Plate 26 | F2 | 50 | 0.484 | 0.0611 | 0.524 | 8.6 |
| Rxn #22 | FTL Plate 26 | G2 | 50 | 0.417 | 0.0611 | 0.524 | 23.1 |
| Rxn #22 | FTL Plate 26 | H2: FOC | - | 0.521 | 0.0611 | 0.524 | 0.6 |
| Rxn #22 | FTL Plate 26 | A3: NFC | - | 0.061 | 0.0611 | 0.524 | 100.0 |
| Rxn #22 | FTL Plate 26 | B3 | 50 | 0.519 | 0.0611 | 0.524 | 1.1 |
| Rxn #22 | FTL Plate 26 | C3 | 50 | 0.526 | 0.0611 | 0.524 | -0.4 |
| Rxn #22 | FTL Plate 26 | D3 | 50 | 0.518 | 0.0611 | 0.524 | 1.3 |
| Rxn #22 | FTL Plate 26 | E3 | 50 | 0.488 | 0.0611 | 0.524 | 7.8 |
| Rxn #22 | FTL Plate 26 | F3 | 50 | 0.493 | 0.0611 | 0.524 | 6.7 |
| Rxn #22 | FTL Plate 26 | G3 | 50 | 0.503 | 0.0611 | 0.524 | 4.5 |
| Rxn #22 | FTL Plate 26 | H3: FOC | - | 0.520 | 0.0611 | 0.524 | 0.9 |
| Rxn #22 | FTL Plate 26 | A4: NFC | - | 0.061 | 0.0611 | 0.524 | 100.0 |
| Rxn #22 | FTL Plate 26 | B4 | 50 | 0.238 | 0.0611 | 0.524 | 61.8 |
| Rxn #22 | FTL Plate 26 | C4 | 50 | 0.455 | 0.0611 | 0.524 | 14.9 |
| Rxn #22 | FTL Plate 26 | D4 | 50 | 0.165 | 0.0611 | 0.524 | 77.6 |
| Rxn #22 | FTL Plate 26 | E4 | 50 | 0.482 | 0.0611 | 0.524 | 9.1 |
| Rxn #22 | FTL Plate 26 | F4 | 50 | 0.286 | 0.0611 | 0.524 | 51.4 |
| Rxn #22 | FTL Plate 26 | G4 | 50 | 0.444 | 0.0611 | 0.524 | 17.3 |
| Rxn #22 | FTL Plate 26 | H4: FOC | - | 0.540 | 0.0611 | 0.524 | -3.5 |
| Rxn #22 | FTL Plate 26 | A5: NFC | - | 0.059 | 0.0611 | 0.524 | 100.5 |
| Rxn #22 | FTL Plate 26 | B5: NFC | - | 0.061 | 0.0611 | 0.524 | 100.0 |
| Rxn #22 | FTL Plate 26 | C5: NFC | - | 0.047 | 0.0611 | 0.524 | 103.0 |
| Rxn #22 | FTL Plate 26 | D5: NFC | - | 0.053 | 0.0611 | 0.524 | 101.7 |
| Rxn #22 | FTL Plate 26 | E5: FOC | - | 0.515 | 0.0611 | 0.524 | 1.9 |
| Rxn #22 | FTL Plate 26 | F5: FOC | - | 0.497 | 0.0611 | 0.524 | 5.8 |
| Rxn #22 | FTL Plate 26 | G5: FOC | - | 0.514 | 0.0611 | 0.524 | 2.2 |
| Rxn #22 | FTL Plate 26 | H5: FOC | - | 0.513 | 0.0611 | 0.524 | 2.4 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #22 | FTL Plate 26 | A6: NFC | - | 0.062 | 0.0611 | 0.524 | 99.8 |
| Rxn #22 | FTL Plate 26 | B6 | 50 | 0.539 | 0.0611 | 0.524 | -3.2 |
| Rxn #22 | FTL Plate 26 | C6 | 50 | 0.495 | 0.0611 | 0.524 | 6.3 |
| Rxn #22 | FTL Plate 26 | D6 | 50 | 0.472 | 0.0611 | 0.524 | 11.2 |
| Rxn #22 | FTL Plate 26 | E6 | 50 | 0.487 | 0.0611 | 0.524 | 8.0 |
| Rxn #22 | FTL Plate 26 | F6 | 50 | 0.519 | 0.0611 | 0.524 | 1.1 |
| Rxn #22 | FTL Plate 26 | G6 | 50 | 0.532 | 0.0611 | 0.524 | -1.7 |
| Rxn #22 | FTL Plate 26 | H6: FOC | - | 0.531 | 0.0611 | 0.524 | -1.5 |
| Rxn #22 | FTL Plate 26 | A7: NFC | - | 0.068 | 0.0611 | 0.524 | 98.5 |
| Rxn #22 | FTL Plate 26 | B7 | 50 | 0.510 | 0.0611 | 0.524 | 3.0 |
| Rxn #22 | FTL Plate 26 | C7 | 50 | 0.477 | 0.0611 | 0.524 | 10.2 |
| Rxn #22 | FTL Plate 26 | D7 | 50 | 0.520 | 0.0611 | 0.524 | 0.9 |
| Rxn #22 | FTL Plate 26 | E7 | 50 | 0.523 | 0.0611 | 0.524 | 0.2 |
| Rxn #22 | FTL Plate 26 | F7 | 50 | 0.518 | 0.0611 | 0.524 | 1.3 |
| Rxn #22 | FTL Plate 26 | G7 | 50 | 0.474 | 0.0611 | 0.524 | 10.8 |
| Rxn #22 | FTL Plate 26 | H7: FOC | - | 0.543 | 0.0611 | 0.524 | -4.1 |
| Rxn #22 | FTL Plate 26 | A8: NFC | - | 0.063 | 0.0611 | 0.524 | 99.6 |
| Rxn #22 | FTL Plate 26 | B8 | 50 | 0.446 | 0.0611 | 0.524 | 16.9 |
| Rxn #22 | FTL Plate 26 | C8 | 50 | 0.533 | 0.0611 | 0.524 | -1.9 |
| Rxn #22 | FTL Plate 26 | D8 | 50 | 0.503 | 0.0611 | 0.524 | 4.5 |
| Rxn #22 | FTL Plate 26 | E8 | 50 | 0.518 | 0.0611 | 0.524 | 1.3 |
| Rxn #22 | FTL Plate 26 | F8 | 50 | 0.451 | 0.0611 | 0.524 | 15.8 |
| Rxn #22 | FTL Plate 26 | G8 | 50 | 0.548 | 0.0611 | 0.524 | -5.2 |
| Rxn #22 | FTL Plate 26 | H8: FOC | - | 0.538 | 0.0611 | 0.524 | -3.0 |
| Rxn #22 | FTL Plate 26 | A9: NFC | - | 0.062 | 0.0611 | 0.524 | 99.8 |
| Rxn #22 | FTL Plate 26 | B9 | 50 | 0.422 | 0.0611 | 0.524 | 22.0 |
| Rxn #22 | FTL Plate 26 | C9 | 50 | 0.496 | 0.0611 | 0.524 | 6.0 |
| Rxn #22 | FTL Plate 26 | D9 | 50 | 0.496 | 0.0611 | 0.524 | 6.0 |
| Rxn #22 | FTL Plate 26 | E9 | 50 | 0.476 | 0.0611 | 0.524 | 10.4 |
| Rxn #22 | FTL Plate 26 | F9 | 50 | 0.522 | 0.0611 | 0.524 | 0.4 |
| Rxn #22 | FTL Plate 26 | G9 | 50 | 0.526 | 0.0611 | 0.524 | -0.4 |
| Rxn #22 | FTL Plate 26 | H9: FOC | - | 0.526 | 0.0611 | 0.524 | -0.4 |
| Rxn #22 | FTL Plate 26 | A10: NFC | - | 0.059 | 0.0611 | 0.524 | 100.5 |
| Rxn #22 | FTL Plate 26 | B10 | 50 | 0.485 | 0.0611 | 0.524 | 8.4 |
| Rxn #22 | FTL Plate 26 | C10 | 50 | 0.501 | 0.0611 | 0.524 | 5.0 |
| Rxn #22 | FTL Plate 26 | D10 | 50 | 0.511 | 0.0611 | 0.524 | 2.8 |
| Rxn #22 | FTL Plate 26 | E10 | 50 | 0.468 | 0.0611 | 0.524 | 12.1 |
| Rxn #22 | FTL Plate 26 | F10 | 50 | 0.505 | 0.0611 | 0.524 | 4.1 |
| Rxn #22 | FTL Plate 26 | G10 | 50 | 0.501 | 0.0611 | 0.524 | 5.0 |
| Rxn #22 | FTL Plate 26 | H10: FOC | - | 0.538 | 0.0611 | 0.524 | -3.0 |
| Rxn #22 | FTL Plate 26 | A11: NFC | - | 0.067 | 0.0611 | 0.524 | 98.7 |
| Rxn #22 | FTL Plate 26 | B11 | 50 | 0.523 | 0.0611 | 0.524 | 0.2 |
| Rxn #22 | FTL Plate 26 | C11 | 50 | 0.416 | 0.0611 | 0.524 | 23.3 |
| Rxn #22 | FTL Plate 26 | D11 | 50 | 0.495 | 0.0611 | 0.524 | 6.3 |
| Rxn #22 | FTL Plate 26 | E11 | 50 | 0.505 | 0.0611 | 0.524 | 4.1 |
| Rxn #22 | FTL Plate 26 | F11 | 50 | 0.497 | 0.0611 | 0.524 | 5.8 |
| Rxn #22 | FTL Plate 26 | G11 | 50 | 0.504 | 0.0611 | 0.524 | 4.3 |
| Rxn #22 | FTL Plate 26 | H11: FOC | - | 0.528 | 0.0611 | 0.524 | -0.9 |
| Rxn #22 | FTL Plate 26 | A12: NFC | - | 0.068 | 0.0611 | 0.524 | 98.5 |
| Rxn #22 | FTL Plate 26 | H12: FOC | - | 0.513 | 0.0611 | 0.524 | 2.4 |
| Rxn #29 | FTL Plate 27 | A1: NFC | - | 0.027 | 0.0258 | 0.459 | 99.7 |
| Rxn #29 | FTL Plate 27 | B1 | 50 | 0.399 | 0.0258 | 0.459 | 13.9 |
| Rxn #29 | FTL Plate 27 | C1 | 50 | 0.408 | 0.0258 | 0.459 | 11.8 |
| Rxn #29 | FTL Plate 27 | D1 | 50 | 0.458 | 0.0258 | 0.459 | 0.2 |
| Rxn #29 | FTL Plate 27 | E1 | 50 | 0.435 | 0.0258 | 0.459 | 5.5 |
| Rxn #29 | FTL Plate 27 | F1 | 50 | 0.458 | 0.0258 | 0.459 | 0.2 |
| Rxn #29 | FTL Plate 27 | G1 | 50 | 0.448 | 0.0258 | 0.459 | 2.5 |
| Rxn #29 | FTL Plate 27 | A2: NFC | - | 0.026 | 0.0258 | 0.459 | 100.0 |
| Rxn #29 | FTL Plate 27 | B2 | 50 | 0.413 | 0.0258 | 0.459 | 10.6 |
| Rxn #29 | FTL Plate 27 | C2 | 50 | 0.480 | 0.0258 | 0.459 | -4.8 |
| Rxn #29 | FTL Plate 27 | D2 | 50 | 0.474 | 0.0258 | 0.459 | -3.5 |
| Rxn #29 | FTL Plate 27 | E2 | 50 | 0.469 | 0.0258 | 0.459 | -2.3 |
| Rxn #29 | FTL Plate 27 | F2 | 50 | 0.482 | 0.0258 | 0.459 | -5.3 |
| Rxn #29 | FTL Plate 27 | G2 | 50 | 0.474 | 0.0258 | 0.459 | -3.5 |
| Rxn #29 | FTL Plate 27 | A3: NFC | - | 0.028 | 0.0258 | 0.459 | 99.5 |
| Rxn #29 | FTL Plate 27 | B3 | 50 | 0.454 | 0.0258 | 0.459 | 1.2 |
| Rxn #29 | FTL Plate 27 | C3 | 50 | 0.444 | 0.0258 | 0.459 | 3.5 |
| Rxn #29 | FTL Plate 27 | D3 | 50 | 0.425 | 0.0258 | 0.459 | 7.8 |
| Rxn #29 | FTL Plate 27 | E3 | 50 | 0.478 | 0.0258 | 0.459 | -4.4 |
| Rxn #29 | FTL Plate 27 | F3 | 50 | 0.449 | 0.0258 | 0.459 | 2.3 |

S1 Table. Data from Screening of Botanical Extract Library for Inhibition of KHKC Activity.

| Rxn ID | Sample | | | Sample (OD _{340nm}) | Ave. No Fructose Controls (OD _{340nm}) | Ave. Fructose Only Controls (OD _{340nm}) | KHKC Inhibition (%) |
|---------|-----------------|----------|--------------|-----------------------------------|--|--|------------------------|
| | Botanical Plate | Well | Conc (µg/mL) | | | | |
| Rxn #29 | FTL Plate 27 | G3 | 50 | 0.459 | 0.0258 | 0.459 | 0.0 |
| Rxn #29 | FTL Plate 27 | A4: NFC | - | 0.024 | 0.0258 | 0.459 | 100.4 |
| Rxn #29 | FTL Plate 27 | B4 | 50 | 0.451 | 0.0258 | 0.459 | 1.8 |
| Rxn #29 | FTL Plate 27 | C4 | 50 | 0.511 | 0.0258 | 0.459 | -12.0 |
| Rxn #29 | FTL Plate 27 | D4 | 50 | 0.453 | 0.0258 | 0.459 | 1.4 |
| Rxn #29 | FTL Plate 27 | E4 | 50 | 0.475 | 0.0258 | 0.459 | -3.7 |
| Rxn #29 | FTL Plate 27 | F4 | 50 | 0.465 | 0.0258 | 0.459 | -1.4 |
| Rxn #29 | FTL Plate 27 | G4 | 50 | 0.486 | 0.0258 | 0.459 | -6.2 |
| Rxn #29 | FTL Plate 27 | A5: NFC | - | 0.027 | 0.0258 | 0.459 | 99.7 |
| Rxn #29 | FTL Plate 27 | B5: NFC | - | 0.019 | 0.0258 | 0.459 | 101.6 |
| Rxn #29 | FTL Plate 27 | C5: NFC | - | 0.019 | 0.0258 | 0.459 | 101.6 |
| Rxn #29 | FTL Plate 27 | D5: NFC | - | 0.024 | 0.0258 | 0.459 | 100.4 |
| Rxn #29 | FTL Plate 27 | E5: FOC | - | 0.469 | 0.0258 | 0.459 | -2.3 |
| Rxn #29 | FTL Plate 27 | F5: FOC | - | 0.460 | 0.0258 | 0.459 | -0.2 |
| Rxn #29 | FTL Plate 27 | G5: FOC | - | 0.454 | 0.0258 | 0.459 | 1.2 |
| Rxn #29 | FTL Plate 27 | A6: NFC | - | 0.032 | 0.0258 | 0.459 | 98.6 |
| Rxn #29 | FTL Plate 27 | B6 | 50 | 0.438 | 0.0258 | 0.459 | 4.8 |
| Rxn #29 | FTL Plate 27 | C6 | 50 | 0.466 | 0.0258 | 0.459 | -1.6 |
| Rxn #29 | FTL Plate 27 | D6 | 50 | 0.426 | 0.0258 | 0.459 | 7.6 |
| Rxn #29 | FTL Plate 27 | E6 | 50 | 0.458 | 0.0258 | 0.459 | 0.2 |
| Rxn #29 | FTL Plate 27 | F6 | 50 | 0.466 | 0.0258 | 0.459 | -1.6 |
| Rxn #29 | FTL Plate 27 | G6 | 50 | 0.486 | 0.0258 | 0.459 | -6.2 |
| Rxn #29 | FTL Plate 27 | A7: NFC | - | 0.031 | 0.0258 | 0.459 | 98.8 |
| Rxn #29 | FTL Plate 27 | B7 | 50 | 0.474 | 0.0258 | 0.459 | -3.5 |
| Rxn #29 | FTL Plate 27 | C7 | 50 | 0.432 | 0.0258 | 0.459 | 6.2 |
| Rxn #29 | FTL Plate 27 | D7 | 50 | 0.462 | 0.0258 | 0.459 | -0.7 |
| Rxn #29 | FTL Plate 27 | E7 | 50 | 0.495 | 0.0258 | 0.459 | -8.3 |
| Rxn #29 | FTL Plate 27 | F7 | 50 | 0.479 | 0.0258 | 0.459 | -4.6 |
| Rxn #29 | FTL Plate 27 | G7 | 50 | 0.438 | 0.0258 | 0.459 | 4.8 |
| Rxn #29 | FTL Plate 27 | B8 | 50 | 0.433 | 0.0258 | 0.459 | 6.0 |
| Rxn #29 | FTL Plate 27 | C8 | 50 | 0.450 | 0.0258 | 0.459 | 2.1 |
| Rxn #29 | FTL Plate 27 | D8 | 50 | 0.513 | 0.0258 | 0.459 | -12.5 |
| Rxn #29 | FTL Plate 27 | E8 | 50 | 0.470 | 0.0258 | 0.459 | -2.5 |
| Rxn #29 | FTL Plate 27 | F8 | 50 | 0.453 | 0.0258 | 0.459 | 1.4 |
| Rxn #29 | FTL Plate 27 | G8 | 50 | 0.486 | 0.0258 | 0.459 | -6.2 |
| Rxn #29 | FTL Plate 27 | B9 | 50 | 0.454 | 0.0258 | 0.459 | 1.2 |
| Rxn #29 | FTL Plate 27 | C9 | 50 | 0.436 | 0.0258 | 0.459 | 5.3 |
| Rxn #29 | FTL Plate 27 | D9 | 50 | 0.461 | 0.0258 | 0.459 | -0.5 |
| Rxn #29 | FTL Plate 27 | E9 | 50 | 0.364 | 0.0258 | 0.459 | 21.9 |
| Rxn #29 | FTL Plate 27 | F9 | 50 | 0.393 | 0.0258 | 0.459 | 15.2 |
| Rxn #29 | FTL Plate 27 | G9 | 50 | 0.392 | 0.0258 | 0.459 | 15.5 |
| Rxn #29 | FTL Plate 27 | A10: NFC | - | 0.027 | 0.0258 | 0.459 | 99.7 |
| Rxn #29 | FTL Plate 27 | B10 | 50 | 0.437 | 0.0258 | 0.459 | 5.1 |
| Rxn #29 | FTL Plate 27 | C10 | 50 | 0.478 | 0.0258 | 0.459 | -4.4 |
| Rxn #29 | FTL Plate 27 | D10 | 50 | 0.518 | 0.0258 | 0.459 | -13.6 |
| Rxn #29 | FTL Plate 27 | E10 | 50 | 0.415 | 0.0258 | 0.459 | 10.2 |
| Rxn #29 | FTL Plate 27 | F10 | 50 | 0.384 | 0.0258 | 0.459 | 17.3 |
| Rxn #29 | FTL Plate 27 | G10 | 50 | 0.375 | 0.0258 | 0.459 | 19.4 |
| Rxn #29 | FTL Plate 27 | H10: FOC | - | 0.463 | 0.0258 | 0.459 | -0.9 |
| Rxn #29 | FTL Plate 27 | A11: NFC | - | 0.020 | 0.0258 | 0.459 | 101.3 |
| Rxn #29 | FTL Plate 27 | B11 | 50 | 0.406 | 0.0258 | 0.459 | 12.2 |
| Rxn #29 | FTL Plate 27 | C11 | 50 | 0.460 | 0.0258 | 0.459 | -0.2 |
| Rxn #29 | FTL Plate 27 | D11 | 50 | 0.469 | 0.0258 | 0.459 | -2.3 |
| Rxn #29 | FTL Plate 27 | E11 | 50 | 0.423 | 0.0258 | 0.459 | 8.3 |
| Rxn #29 | FTL Plate 27 | F11 | 50 | 0.371 | 0.0258 | 0.459 | 20.3 |
| Rxn #29 | FTL Plate 27 | G11 | 50 | 0.437 | 0.0258 | 0.459 | 5.1 |
| Rxn #29 | FTL Plate 27 | H11: FOC | - | 0.448 | 0.0258 | 0.459 | 2.5 |
| Rxn #29 | FTL Plate 27 | A12: NFC | - | 0.031 | 0.0258 | 0.459 | 98.8 |

FTL: functional target library; proprietary library of Amway Corp. KHKC: ketohexokinase isoform C. FOC: fructose only control. NFC: no fructose control. OD: optical density.