| Actual | Inferred | $\alpha$ | Actual | Inferred | $\alpha$ |
|---|---|---|---|---|---|
| (0,1) | (0,1) | 1.9e-5 | (0.5,0.5) | (0.52,0.48) | 1.3e-5 |
| (0.01,0.99) | (0.01,0.99) | 5.3e-5 | (0.6,0.4) | (0.63,0.38) | 2.4e-5 |
| (0.05,0.95) | (0.03,0.97) | 1.9e-5 | (0.7,0.3) | (0.72,0.28) | 4.7e-6 |
| (0.1,0.9) | (0.09,0.81) | 1.4e-5 | (0.75,0.25) | (0.72,0.28) | 5.1e-4 |
| (0.15,0.85) | (0.14,0.86) | 1.5e-3 | (0.8,0.2) | (0.77,0.23) | 3.7e-6 |
| (0.2,0.8) | (0.20,0.80) | 1.0e-5 | (0.85,0.15) | (0.88,0.12) | 9.1e-4 |
| (0.25,0.75) | (0.25,0.75) | 1.0e-5 | (0.9,0.1) | (0.90,0.10) | 1.2e-5 |
| (0.3,0.7) | (0.33,0.67) | 2.8e-5 | (0.95,0.05) | (0.97,0.03) | 5.2e-6 |
| (0.4,0.6) | (0.41,0.59) | 1.2e-5 | (0.99,0.01) | (0.99,0.01) | 6.1e-5 |

**Table S1.** Table of output values from algorithm applied to artificial laboratory mixture data.