

Supplementary Materials: Elicitation of Diosgenin Production in *Trigonella foenum-graecum* (Fenugreek) Seedlings by Methyl Jasmonate

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Table S1. Effects of methyl jasmonate (MeJA) treatments on the expression of 3-hydroxy-3-methylglutaryl-CoA reductase (*HMG*) and sterol-3- β -glucosyl transferase (*STRL*) genes and diosgenin yield (%) in fenugreek (*Trigonella foenum-graecum* L.) plants.

| Fenugreek Variety | Metabolite Yield | Concentration of MeJA | | | | | | |
|-------------------|------------------|-----------------------|--------------------|---------------------|---------------------|---------------------|---------------------|----------------------|
| | | 00 $\mu\text{L/L}$ | 50 $\mu\text{L/L}$ | 100 $\mu\text{L/L}$ | 200 $\mu\text{L/L}$ | 300 $\mu\text{L/L}$ | 500 $\mu\text{L/L}$ | 1000 $\mu\text{L/L}$ |
| GM2 | HMG (FC) | 1.00 | 0.88 | 3.20 | 0.38 | 0.60 | 0.44 | 0.56 |
| | STRL (FC) | 1.00 | 1.80 | 22.16 | 0.66 | 1.82 | 0.83 | 1.66 |
| | Diosgenin % | 0.90 | 1.44 | 1.80 | 0.72 | 1.62 | 0.72 | 1.36 |
| Kasuri-1 | HMG (FC) | 1.00 | 1.77 | 3.41 | 1.19 | 1.62 | 0.40 | 1.25 |
| | STRL (FC) | 1.00 | 1.27 | 3.80 | 1.39 | 1.89 | 0.75 | 0.84 |
| | Diosgenin % | 0.65 | 0.78 | 1.60 | 1.04 | 1.01 | 0.48 | 0.46 |
| Kasuri-2 | HMG (FC) | 1.00 | 2.08 | 25.40 | 15.50 | 2.11 | 0.91 | 1.95 |
| | STRL (FC) | 1.00 | 2.08 | 28.44 | 18.50 | 2.11 | 0.91 | 1.95 |
| | Diosgenin % | 0.55 | 0.83 | 1.70 | 0.77 | 0.66 | 0.61 | 0.44 |
| PEB | HMG (FC) | 1.00 | 1.15 | 1.27 | 0.87 | 0.85 | 0.83 | 0.76 |
| | STRL (FC) | 1.00 | 1.20 | 2.50 | 0.38 | 0.57 | 0.14 | 0.13 |
| | Diosgenin % | 0.75 | 0.23 | 1.10 | 0.38 | 0.45 | 0.15 | 0.11 |
| RMT | HMG (FC) | 1.00 | 1.07 | 2.15 | 0.81 | 0.90 | 0.85 | 0.80 |
| | STRL (FC) | 1.00 | 1.48 | 2.80 | 1.71 | 1.31 | 1.17 | 1.02 |
| | Diosgenin % | 0.85 | 1.19 | 1.01 | 0.97 | 1.02 | 0.94 | 0.68 |
| MMT | HMG (FC) | 1.00 | 1.23 | 1.60 | 1.20 | 1.10 | 0.90 | 0.80 |
| | STRL (FC) | 1.00 | 1.58 | 3.50 | 1.08 | 1.30 | 0.67 | 0.77 |
| | Diosgenin % | 0.75 | 0.83 | 1.10 | 0.90 | 0.83 | 0.60 | 0.38 |

(FC = fold change).