**S2 Table. Analysis of variance for different seed germination-based parameters based on the parental environment.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Source | CSG | MSG | t50 | SGR |
| Osmotic potential (Trt) | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| PE | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| Offspring (Cul) | \*\*\* | \*\*\* | \*\* | \*\* |
| Trt × PE | \*\*\* | \*\*\* | \*\*\* | \*\*\* |
| Cul × PE | \*\*\* | \*\* | \*\* | \*\* |
| Trt × Cul | \*\*\* | \*\*\* | \*\* | \*\* |
| Trt × Cul × PE | \* | \* | \* | \* |

¶\*\*\*, \*\*, \* and NS represent significance level at *P* ≤ 0.001, *P* ≤ 0.05, *P* ≤ 0.01, and *P* > 0.05. Osmotic stress treatments (Trt), parental environment (PE), soybean offspring (Cul), and their interactions (Cul × Trt × PE) with cumulative percent germination (CSG), maximum seed germination (MSG), time to 50% germination (t50), and seed germination rate (SGR).