**Table 2** Raw data of direct shoot organogenesis from nodal explants of pokeweeds influenced by various types and concentrations of cytokinins

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| CytokininConcentrations(mg/l) | Replications | Root formation (%) | Shoot formation (%) | Number of shoots | Shoot length (cm) | Number of leaves |
| Control | 1 | 0 | 0 | 1.0 | 6.9 | 8.0 |
| 2 | 50 | 50 | 1.0 | 5.4 | 7.0 |
| 3 | 50 | 50 | 1.0 | 6.8 | 8.0 |
| 4 | 50 | 50 | 1.0 | 1.8 | 5.0 |
| 5 | 0 | 50 | 1.0 | 6.2 | 5.0 |
| 6 | 50 | 50 | 1.0 | 6.0 | 7.0 |
| 7 | 50 | 50 | 1.0 | 0.7 | 1.0 |
| 8 | 0 | 0 | 1.0 | 2.3 | 5.0 |
| 9 | - | - | 1.0 | 5.1 | 8.0 |
| 10 | - | - | 1.0 | 1.1 | 3.0 |
| 11 | - | - | 1.0 | 5.9 | 8.0 |
| 12 | - | - | 1.0 | 5.6 | 8.0 |
| 13 | - | - | 1.0 | 3.6 | 6.0 |
| 14 | - | - | - | - | - |
| 15 | - | - | - | - | - |
| 16 | - | - | - | - | - |
| 1 mg/lBAP | 1 | 0 | 100 | 2.0 | 4.4 | 12.0 |
| 2 | 0 | 100 | 3.0 | 4.0 | 10.0 |
| 3 | 0 | 100 | 1.0 | 5.3 | 9.0 |
| 4 | 0 | 100 | 2.0 | 4.6 | 10.0 |
| 5 | 0 | 100 | 1.0 | 4.8 | 13.0 |
| 6 | 0 | 100 | 3.0 | 4.3 | 9.0 |
| 7 | 0 | 100 | 2.0 | 4.6 | 8.0 |
| 8 | 0 | 100 | 3.0 | 3.8 | 9.0 |
| 9 | - | - | 2.0 | 3.0 | 8.0 |
| 10 | - | - | 2.0 | 4.1 | 10.0 |
| 11 | - | - | 2.0 | 3.9 | 9.0 |
| 12 | - | - | 3.0 | 4.5 | 9.0 |
| 13 | - | - | 2.0 | 3.6 | 9.0 |
| 14 | - | - | 3.0 | 3.7 | 7.0 |
| 15 | - | - | 2.0 | 4.1 | 9.0 |
| 16 | - | - | 2.0 | 4.2 | 11.0 |
| 2 mg/lBAP | 1 | 0 | 100 | 2.0 | 4.5 | 11.0 |
| 2 | 0 | 100 | 3.0 | 4.2 | 10.0 |
| 3 | 0 | 100 | 2.0 | 2.9 | 5.0 |
| 4 | 0 | 100 | 2.0 | 3.0 | 7.0 |
| 5 | 0 | 100 | 2.0 | 3.8 | 12.0 |
| 6 | 0 | 100 | 2.0 | 3.6 | 9.0 |
| 7 | 0 | 100 | 1.0 | 4.5 | 11.0 |
| 8 | 0 | 100 | 2.0 | 3.0 | 7.0 |
| 9 | - | - | 3.0 | 3.9 | 10.0 |
| 10 | - | - | 1.0 | 4.7 | 12.0 |
| 11 | - | - | 2.0 | 4.0 | 10.0 |
| 12 | - | - | 2.0 | 3.6 | 7.0 |
| 13 | - | - | 2.0 | 4.1 | 8.0 |
| 14 | - | - | 2.0 | 4.0 | 6.0 |
| 15 | - | - | 3.0 | 3.6 | 6.0 |
| 16 | - | - | 2.0 | 3.8 | 10.0 |
| 4 mg/lBAP | 1 | 0 | 100 | 1.0 | 1.8 | 2.0 |
| 2 | 0 | 100 | 2.0 | 2.4 | 6.0 |
| 3 | 0 | 100 | 2.0 | 2.6 | 5.0 |
| 4 | 0 | 100 | 1.0 | 2.9 | 9.0 |
| 5 | 0 | 100 | 1.0 | 2.2 | 6.0 |
| 6 | 0 | 100 | 2.0 | 1.9 | 3.0 |
| 7 | 0 | 100 | 1.0 | 3.5 | 9.0 |
| 8 | 0 | 100 | 2.0 | 2.8 | 10.0 |
| 9 | - | - | 1.0 | 2.3 | 4.0 |
| 10 | - | - | 1.0 | 1.4 | 5.0 |
| 11 | - | - | 1.0 | 3.6 | 5.0 |
| 12 | - | - | 1.0 | 2.5 | 8.0 |
| 13 | - | - | 1.0 | 2.0 | 2.0 |
| 14 | - | - | 1.0 | 2.4 | 3.0 |
| 15 | - | - | 1.0 | 2.8 | 7.0 |
| 16 | - | - | 1.0 | 2.8 | 5.0 |
| 1 mg/lKIN | 1 | 0 | 100 | 1.0 | 4.5 | 15.0 |
| 2 | 0 | 100 | 2.0 | 5.2 | 13.0 |
| 3 | 0 | 100 | 2.0 | 5.4 | 11.0 |
| 4 | 0 | 100 | 1.0 | 6.3 | 11.0 |
| 5 | 0 | 100 | 1.0 | 3.7 | 9.0 |
| 6 | 0 | 100 | 1.0 | 5.5 | 8.0 |
| 7 | 0 | 100 | 2.0 | 4.0 | 8.0 |
| 8 | 0 | 100 | 1.0 | 5.3 | 9.0 |
| 9 | - | - | 1.0 | 5.1 | 11.0 |
| 10 | - | - | 1.0 | 4.2 | 10.0 |
| 11 | - | - | 2.0 | 4.7 | 9.0 |
| 12 | - | - | 1.0 | 3.5 | 8.0 |
| 13 | - | - | 1.0 | 4.5 | 12.0 |
| 14 | - | - | 1.0 | 3.3 | 12.0 |
| 15 | - | - | 1.0 | 7.6 | 7.0 |
| 16 | - | - | 1.0 | 6.2 | 13.0 |
| 2 mg/lKIN | 1 | 0 | 100 | 2.0 | 5.5 | 10.0 |
| 2 | 0 | 100 | 2.0 | 5.6 | 9.0 |
| 3 | 0 | 100 | 1.0 | 5.5 | 14.0 |
| 4 | 0 | 100 | 2.0 | 3.6 | 14.0 |
| 5 | 0 | 100 | 2.0 | 6.4 | 13.0 |
| 6 | 0 | 100 | 2.0 | 4.7 | 15.0 |
| 7 | 0 | 100 | 2.0 | 6.7 | 12.0 |
| 8 | 0 | 100 | 3.0 | 5.6 | 8.0 |
| 9 | - | - | 2.0 | 4.7 | 7.0 |
| 10 | - | - | 1.0 | 5.2 | 5.0 |
| 11 | - | - | 1.0 | 4.0 | 10.0 |
| 12 | - | - | 1.0 | 4.5 | 11.0 |
| 13 | - | - | 1.0 | 4.0 | 14.0 |
| 14 | - | - | 2.0 | 5.0 | 10.0 |
| 15 | - | - | 2.0 | 3.9 | 10.0 |
| 16 | - | - | 3.0 | 5.8 | 13.0 |
| 4 mg/lKIN | 1 | 0 | 100 | 1.0 | 4.4 | 6.0 |
| 2 | 0 | 100 | 3.0 | 3.3 | 10.0 |
| 3 | 0 | 100 | 1.0 | 4.8 | 15.0 |
| 4 | 0 | 100 | 3.0 | 4.0 | 12.0 |
| 5 | 0 | 100 | 1.0 | 3.0 | 9.0 |
| 6 | 0 | 100 | 1.0 | 3.6 | 8.0 |
| 7 | 0 | 100 | 3.0 | 3.7 | 8.0 |
| 8 | 0 | 100 | 1.0 | 3.8 | 9.0 |
| 9 | - | - | 3.0 | 3.1 | 4.0 |
| 10 | - | - | 2.0 | 4.5 | 15.0 |
| 11 | - | - | 2.0 | 3.2 | 10.0 |
| 12 | - | - | 2.0 | 4.7 | 13.0 |
| 13 | - | - | 2.0 | 4.1 | 8.0 |
| 14 | - | - | 2.0 | 5.2 | 14.0 |
| 15 | - | - | 4.0 | 2.8 | 4.0 |
| 16 | - | - | 3.0 | 3.0 | 7.0 |
| 1 mg/lTDZ | 1 | 0 | 100 | 3.0 | 1.8 | 8.0 |
| 2 | 0 | 100 | 2.0 | 3.5 | 12.0 |
| 3 | 0 | 100 | 1.0 | 2.8 | 5.0 |
| 4 | 0 | 100 | 2.0 | 3.3 | 5.0 |
| 5 | 0 | 100 | 1.0 | 4.4 | 9.0 |
| 6 | 0 | 100 | 1.0 | 2.1 | 3.0 |
| 7 | 0 | 100 | 2.0 | 4.1 | 7.0 |
| 8 | 0 | 100 | 3.0 | 3.1 | 5.0 |
| 9 | - | - | 4.0 | 3.6 | 9.0 |
| 10 | - | - | 2.0 | 3.4 | 9.0 |
| 11 | - | - | 2.0 | 1.7 | 10.0 |
| 12 | - | - | 4.0 | 2.7 | 7.0 |
| 13 | - | - | 3.0 | 4.8 | 7.0 |
| 14 | - | - | 4.0 | 2.9 | 5.0 |
| 15 | - | - | 3.0 | 2.6 | 8.0 |
| 16 | - | - | 2.0 | 3.2 | 6.0 |
| 2 mg/lTDZ | 1 | 0 | 100 | 2.0 | 2.6 | 7.0 |
| 2 | 0 | 100 | 2.0 | 3.8 | 8.0 |
| 3 | 0 | 100 | 3.0 | 1.7 | 8.0 |
| 4 | 0 | 100 | 3.0 | 3.6 | 11.0 |
| 5 | 0 | 100 | 2.0 | 2.4 | 7.0 |
| 6 | 0 | 100 | 1.0 | 2.3 | 4.0 |
| 7 | 0 | 100 | 2.0 | 2.2 | 5.0 |
| 8 | 0 | 100 | 2.0 | 1.8 | 6.0 |
| 9 | - | - | 3.0 | 3.6 | 7.0 |
| 10 | - | - | 2.0 | 2.9 | 3.0 |
| 11 | - | - | 2.0 | 3.4 | 13.0 |
| 12 | - | - | 1.0 | 4.0 | 6.0 |
| 13 | - | - | 4.0 | 3.5 | 7.0 |
| 14 | - | - | 2.0 | 3.2 | 9.0 |
| 15 | - | - | 2.0 | 3.1 | 8.0 |
| 16 | - | - | 2.0 | 2.8 | 4.0 |
| 4 mg/lTDZ | 1 | 0 | 100 | 2.0 | 4.3 | 9.0 |
| 2 | 0 | 100 | 2.0 | 5.3 | 8.0 |
| 3 | 0 | 100 | 1.0 | 2.3 | 4.0 |
| 4 | 0 | 100 | 1.0 | 4.0 | 4.0 |
| 5 | 0 | 100 | 2.0 | 1.7 | 6.0 |
| 6 | 0 | 100 | 2.0 | 4.8 | 7.0 |
| 7 | 0 | 100 | 3.0 | 2.7 | 5.0 |
| 8 | 0 | 100 | 3.0 | 2.6 | 7.0 |
| 9 | - | - | 2.0 | 3.3 | 11.0 |
| 10 | - | - | 1.0 | 3.6 | 12.0 |
| 11 | - | - | 1.0 | 4.4 | 5.0 |
| 12 | - | - | 1.0 | 3.2 | 8.0 |
| 13 | - | - | 2.0 | 3.1 | 5.0 |
| 14 | - | - | 2.0 | 3.3 | 5.0 |
| 15 | - | - | 1.0 | 3.0 | 8.0 |
| 16 | - | - | 3.0 | 3.5 | 7.0 |