**S1 Table.**  **Experimental proliferation media compositions with different concentrations of L-Gln.**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  | Total N | NH4+-N | | NO3--N | | L-Gln-N | | |
| Medium | Treatment | mM | mM | % | mM | % | mM | % | |
| ½-LP | PM#1 | 16.8 | 3.7 | 22.2 | 13.1 | 77.8 | - | - |
| ½-LP + 1.5 mM L-Gln | PM#4 | 19.9 | 3.7 | 18.6 | 13.1 | 65.8 | 3.1 | 15.6 |
| ½-LP + 3.1 mM L-Gln | PM#3 | 23.0 | 3.7 | 16.3 | 13.1 | 57.0 | 6.2 | 26.7 |
| ½-LP + 6.2 mM L-Gln | PM#5 | 29.4 | 3.7 | 12.6 | 13.1 | 44.6 | 12.4 | 42.2 |

Experimental media, corresponding concentrations of total N and the N concentration of each N source (NH4+, NO3- and L-Gln) provided in the media.