**Supplementary Table 1.** Morphometric characteristics of *P. quindecaurelia* n.sp. and *P. biaurelia.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | A65-1  *P. quindecaurelia* | D88-4  *P. quindecaurelia* | Ts  *P.*  *biaurelia* | *P. biaurelia* [30] \* |
| Average length of cells [µm] | 124.0 | 122.9 | 117.5 | 133.0 |
| SD | 16.8 | 8.7 | 9.0 | 11.3 |
| Average cell width [µm] | 28.4 | 27.8 | 23.4 | 31.5 |
| SD | 7.9 | 7.2 | 3.0 | 4.5 |
| Average length of MAC [µm] | 32.6 | 30.0 | 34.2 | 27.5 |
| SD | 4.2 | 3.6 | 4.0 | No data |
| Average width of MAC [µm] | 12.2 | 11.4 | 11.3 | 14 |
| SD | 1.4 | 2.0 | 1.6 | No data |
| Average diameter of MIC [µm] | 1.6 | 1.7 | 1.8 | 3.2 |
| SD | 0.2 | 0.1 | 0.1 | 0.1 |
| The average number of kineties | 51 | 62 | 52 | 61 |
| SD | 5 | 6 | 4 | No data |
| The length of the infundibulum [µm] | 26.0 | ND | ND | 27.6 |
| SD | 5 | ND | ND | ND |

\* average for three strains of the species

ND – not determined