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| **Table. Organisms having zero-content aspartokinases** |
| Cohesion group\* |  | Genome name | Residues | % Trp  | % GC |
| 28 |  | *Clostridium botulinum* | 400 | 0 | 0.28 |
| 28 |  | *Clostridium difficile* 630 | 397 | 0 | 0.29 |
| 42 |  | Candidatus *Ruthia magnifica* Cm | 407 | 0 | 0.34 |
| 42 |  | Candidatus *Vesicomyosocius okutanii* HA | 407 | 0 | 0.32 |
| 43 |  | *Alcanivorax borkumensis* SK2 | 408 | 0 | 0.55 |
| 43 |  | *Azotobacter vinelandii* AvOP | 411 | 0 | 0.66 |
| 43 |  | *Hahella chejuensis* KCTC 2396 | 408 | 0 | 0.54 |
| 43 |  | *Marinomonas* sp. MWYL1 | 413 | 0 | 0.43 |
| 43 |  | *Marinobacter aquaeolei* VT8 | 412 | 0 | 0.57 |
| 43 |  | *Pseudomonas aeruginosa* PAO1 | 412 | 0 | 0.67 |
| 43 |  | *Pseudomonas entomophila* L48 | 411 | 0 | 0.64 |
| 43 |  | *Pseudomonas fluorescens* Pf-5 | 413 | 0 | 0.63 |
| 43 |  | *Pseudomonas mendocina* ymp | 424 | 0 | 0.65 |
| 43 |  | *Pseudomonas putida* F1 | 411 | 0 | 0.62 |
| 43 |  | *Pseudomonas stutzeri* A1501 | 412 | 0 | 0.64 |
| 43 |  | *Pseudomonas syringae* pv. *syringae* B728a | 410 | 0 | 0.59 |
| 43 |  | *Saccharophagus degradans* 2-40 | 408 | 0 | 0.46 |
| 44 |  | *Dehalococcoides* sp. CBDB1 | 405 | 0 | 0.47 |
| 44 |  | *Dehalococcoides ethenogenes* 195 | 405 | 0 | 0.49 |
| 46 |  | *Alkalilimnicola ehrlichei* MLHE-1 | 416 | 0 | 0.68 |
| 46 |  | *Halorhodospira halophila* SL1 | 416 | 0 | 0.68 |
| 46 |  | *Nitrosococcus oceani* ATCC 19707 | 413 | 0 | 0.50 |
| Orphan |  | *Carboxydothermus hydrogenoformans* Z-2901 | 406 | 0 | 0.42 |
| Orphan |  | Candidatus *Carsonella ruddii* PV | 412 | 0 | 0.17 |
| Orphan |  | *Chromohalobacter salexigens* DSM 3043 | 414 | 0 | 0.64 |
| Orphan |  | *Methylococcus capsulatus* Bath | 409 | 0 | 0.64 |
| Orphan |  | *Moorella thermoacetica* ATCC 39073 | 405 | 0 | 0.56 |
| Orphan |  | *Pseudoalteromonas haloplanktis* TAC125 | 405 | 0 | 0.40 |
| Orphan |  | *Syntrophobacter fumaroxidans* MPOB | 417 | 0 | 0.60 |
| Orphan |  | *Streptomyces griseus* subsp. *griseus* NBRC 13350 | 427 | 0 | 0.72 |
| Orphan |  | *Tropheryma whipplei* TW08/27 | 418 | 0 | 0.46 |

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\*Abbreviation: ‘Orp’ refers to orphan sequences which currently do not belong to a cohesion group.