**Supplementary Table 1 |** Cross-validation of the validation setwith main spectral profiles of other species of *Yersinia* excluding *Yersinia ruckeri* in the MALDI Biotyper® reference library

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Bacterial isolates lab no.** | **Species** | **Organism best matched the MSPs of other species of *Yersinia***  | **Log score value / range of log score value** |
| 1 | *Yersinia ruckeri* 25907-2008 | Atlantic salmon | *Yersinia intermedia**Yersinia frederiksenii* | 1.951.95 |
| 2. | *Yersinia ruckeri* | Atlantic salmon | *Yersinia pseudotuberculosis**Yersinia frederiksenii* | 1.75 – 1.771.94 |
|  | 14969-2010 |  | *Yersinia intermedia* | 1.89 |
|  |  |  | *Yersinia enterocolitica ssp enterocolitica* | 1.84 |
| 3. | *Yersinia ruckeri* | Atlantic salmon | *Yersinia pseudotuberculosis**Yersinia frederiksenii* | 1.881.73 |
|  | 16319-2009 |  | *Yersinia aleksiciae* | 1.83 |
|  |  |  | *Yersinia intermedia* | 1.80 |
| 4. | *Yersinia ruckeri* | Atlantic salmon | *Yersinia kristensenii**Yersinia frederiksenii* | 1.771.74 |
|  | 18169-2007 |  | *Yersinia intermedia* | 1.81 |
|  |  |  | *Yersinia pseudotuberculosis* | 1.86 – 1.95 |
|  |  |  | *Yersinia aleksiciae* | 1.79 – 1.89 |
| 5. | *Yersinia ruckeri* | Atlantic salmon | *Yersinia pseudotuberculosis**Yersinia frederiksenii* | 1.82 – 1.951.61 - 1.95 |
|  | 18170-2007 |  | *Yersinia intermedia* | 1.90 |
|  |  |  | *Yersinia aleksiciae* | 1.79 – 1.89 |
| 6. | *Yersinia ruckeri* | Atlantic salmon | *Yersinia pseudotuberculosis**Yersinia intermedia* | 1.86 - 1.961.90 |
|  | 19077-2011 |  | *Yersinia frederiksenii* | 1.95 |
|  |  |  | *Yersinia intermedia* | 1.85 – 1.91 |
|  |  |  | *Yersinia frederiksenii* | 1.87 |
| 8. | *Yersinia ruckeri* 21383-2008 | Atlantic salmon | *Yersinia intermedia**Yersinia kristensenii* | 1.81 – 1.881.58 – 1.59 |
| 9. | *Yersinia ruckeri* 23973-2013 | Atlantic salmon | *Yersinia aleksiciae**Yersinia pseudotuberculosis* | 1.86 – 1.931.83 – 1.90 |
| 10. | *Yersinia ruckeri* 24979-2011 | Atlantic salmon | *Yersinia kristensenii**Yersinia pseudotuberculosis**Yersinia enterocolitica ssp enterocolitica**Yersinia intermedia* | 1.79 – 1.901.761.911.88 – 1.92 |
| 11. | *Yersinia ruckeri* 27447-2011 | Atlantic salmon | *Yersinia intermedia**Yersinia enterocolitica ssp enterocolitica**Yersinia frederiksenii* | 1.851.791.79 – 1.87 |
| 12. | *Yersinia ruckeri* 28714-2006 | Atlantic salmon | *Yersinia kristensenii**Yersinia pseudotuberculosis**Yersinia frederiksenii* | 1.84 – 1.921.78 – 1.881.81 – 1.88 |
| 13. | *Yersinia ruckeri* 34698-2009 | Atlantic cod | *Yersinia pseudotuberculosis* | 1.88 – 1.98 |
| 14. | *Yersinia ruckeri* 35090-2009 | Atlantic cod | *Yersinia pseudotuberculosis**Yersinia intermedia**Yersinia frederiksenii**Yersinia enterocolitica ssp enterocolitica* | 1.84 – 1.881.841.871.75 – 1.83 |
| 15. | *Yersinia ruckeri* 11395-2010 | Atlantic salmon | *Yersinia kristensenii**Yersinia pseudotuberculosis* | 1.751.71 |
| 16. | *Yersinia ruckeri* 11714-2008 | Atlantic salmon | *Yersinia kristensenii* | 1.82 – 1.85 |
| 17. | *Yersinia ruckeri* 13631-2009 | American eel | *Yersinia enterocolitica ssp enterocolitica**Yersinia kristensenii* | 1.751.75 |
| 18. | *Yersinia ruckeri* 1463-2013 | Atlantic salmon | *Yersinia pseudotuberculosis**Yersinia aleksiciae* | 1.761.75 |
| 19. | *Yersinia ruckeri* 15945-2008 | Atlantic salmon | *Yersinia intermedia**Yersinia frederiksenii* | 1.931.92 |
| 20. | *Yersinia ruckeri* 16155-2003 | Atlantic salmon | *Yersinia frederiksenii**Yersinia aleksiciae* | 1.971.80 |
| 21. | *Yersinia ruckeri* 16743-2009 | Atlantic salmon | *Yersinia kristensenii**Yersinia pseudotuberculosis* | 1.821.82 |
| 22. | *Yersinia ruckeri* 18047-2008 | Atlantic salmon | *Yersinia enterocolitica ssp enterocolitica* | 1.77 – 1.81 |
| 23. | *Yersinia ruckeri* 19179-2012 | Atlantic salmon | *Yersinia enterocolitica ssp enterocolitica**Yersinia aleksiciae* | 1.931.88 |
| 24. | *Yersinia ruckeri* 19630-2004 | Atlantic salmon | *Yersinia intermedia* | 1.89 |
| 25. | *Yersinia ruckeri* 25932-2006 | Atlantic salmon | *Yersinia frederiksenii* | 1.77 – 1.79 |
| 26. | *Yersinia ruckeri* 27451-2011 | Atlantic salmon | *Yersinia intermedia**Yersinia frederiksenii* | 1.911.86 |
| 27. | *Yersinia ruckeri* 29112-2021 | Atlantic salmon | *Yersinia frederiksenii**Yersinia pseudotuberculosis* | 1.911.91 |
| 28. | *Yersinia ruckeri* 31718-2009 | Atlantic salmon | *Yersinia mollaretii**Yersinia frederiksenii* | 1.861.83 |
| 29. | ***Yersinia ruckeri*** **9275-1990** | Atlantic salmon | *Yersinia kristensenii**Yersinia enterocolitica ssp enterocolitica**Yersinia bercovieri* | 2.30 – 2.562.18 – 2.192.18 |

**NB:** Cell in bold represent bacterial isolate that was identified as no reliable identification by the novel main spectral profile in the validation set

**NB:** When the same bacteria is detected multiple times, the name of the bacterium and range of the log scores are presented