Raman spectroscopy for the differentiation of *Enterobacteriaceae*: a comparison of two methods

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**Supplementary Materials**

Table S1 Preliminary classification model with only Escherichia and Klebsiella, each class is made up of 2 strains and three replicates, measured with SC-RMS as described in the manuscript. The model is a PCA-LDA model. Overall accuracy is 95.1%.

<table>
<thead>
<tr>
<th>Reference</th>
<th>Escherichia</th>
<th>Klebsiella</th>
<th>Sensitivity</th>
<th>Specificity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Predicted</td>
<td>Escherichia</td>
<td>289</td>
<td>22</td>
<td>96.7%</td>
</tr>
<tr>
<td></td>
<td>Klebsiella</td>
<td>10</td>
<td>329</td>
<td>93.7%</td>
</tr>
</tbody>
</table>

Table S2 Preliminary classification results comparing the use of different growth media: LB-Broth and nutrient broth, on SC-RMS performance. Each model is based on a small preliminary dataset of only *Escherichia* and *Klebsiella*, the sample size is given in the table. The data was collected with SC-RMS as described in the manuscript except for the change in growth media. The model is a PCA-LDA model.

<table>
<thead>
<tr>
<th>Medium</th>
<th>Classification accuracy</th>
<th>Sample size</th>
</tr>
</thead>
<tbody>
<tr>
<td>LB-Broth</td>
<td>97%</td>
<td>229 spectra, 2 replicates, <em>E. coli</em> and <em>K. pneumoniae</em></td>
</tr>
<tr>
<td>Nutrient Broth</td>
<td>95%</td>
<td>650 spectra, 6 replicates, <em>E. coli</em> and <em>K. pneumoniae</em></td>
</tr>
</tbody>
</table>