

Supplementary Table 1 – Comparison between the identification performance of using the MALDI Sepsityper and In-house extraction method in both MALDI-TOF MS systems (n=92)

Conventional bacterial identification (no. of strains)	MALDI Sepsityper method						In-house extraction method					
	Biotyper			VITEK-MS			Biotyper			VITEK-MS		
	Species level	Genus level only	No/ Wrong ID	Species level	Genus level only	No/ Wrong ID	Species level	Genus level only	No/ Wrong ID	Species level	Genus level only	No/ Wrong ID
Gram Positive Bacteria												
<i>Bacillus licheniformis</i> (1)	0	0	1	0	0	1	0	0	1	0	0	1
<i>Enterococcus avium</i> (1)	1	0	0	1	0	0	1	0	0	1	0	0
<i>Enterococcus faecalis</i> (2)	2	0	0	2	0	0	1	1	0	2	0	0
<i>Enterococcus faecium</i> (5)	5	0	0	5	0	0	5	0	0	5	0	0
<i>Staphylococcus aureus</i> (4)	4	0	0	3	0	1	2	2	0	2	0	2
<i>Staphylococcus capitis</i> (1)	1	0	0	0	1	0	1	0	0	1	0	0
<i>Staphylococcus epidermidis</i> (6)	1	4	1	2	0	4	1	4	1	3	0	3
<i>Staphylococcus hominis</i> (1)	1	0	0	1	0	0	0	1	0	1	0	0
<i>Streptococcus agalactiae</i> (2)	2	0	0	2	0	0	2	0	0	2	0	0
<i>Streptococcus sanguinis</i> (1)	0	1	0	1	0	0	1	0	0	1	0	0
<i>Listeria monocytogenes</i> (1)	1	0	0	1	0	0	1	0	0	1	0	0
Sub-total (25)	18	5	2	18	1	6	15	8	2	19	0	6
	(72.0%)	(20.0%)	(8.0%)	(72.0%)	(4.0%)	(24.0%)	(60.0%)	(32.0%)	(8.0%)	(76.0%)	(0%)	(24.0%)
Gram Negative Bacteria												
<i>Acinetobacter baumannii</i> (2)	0	2	0	0	1	1	1	1	0	2	0	0
<i>Acinetobacter junii</i> (1)	0	0	1	0	0	1	1	0	0	0	0	1
<i>Aeromonas hydrophila</i> (1)	0	1	0	0	1	0	0	1	0	0	1	0
<i>Brevundimonas diminuta</i> (1)	0	0	1	0	0	1	0	0	1	0	0	1
<i>Citrobacter freundii</i> (2)	2	0	0	1	1	0	2	0	0	0	1	1
<i>Escherichia coli</i> (38)	38	0	0	38	0	0	38	0	0	37	0	1
<i>Enterobacter aerogenes</i> (4)	4	0	0	4	0	0	4	0	0	4	0	0
<i>Enterobacter kobei</i> (2)	1	1	0	0	2	0	1	1	0	0	2	0
<i>Klebsiella pneumoniae</i> (6)	6	0	0	6	0	0	5	1	0	6	0	0
<i>Proteus mirabilis</i> (2)	2	0	0	2	0	0	2	0	0	2	0	0
<i>Pseudomonas aeruginosa</i> (3)	3	0	0	3	0	0	3	0	0	3	0	0
<i>Salmonella enteritidis</i> (2)	0	2	0	0	2	0	0	2	0	0	2	0
<i>Serratia marcescens</i> (1)	1	0	0	1	0	0	1	0	0	1	0	0
<i>Stenotrophomonas maltophilia</i> (1)	0	0	1	0	0	1	1	0	0	1	0	0
<i>Vibrio vulnificus</i> (1)	0	0	1	0	0	1	0	1	0	0	0	1
Sub-total (67)	57	6	6	55	7	5	59	7	1	56	6	5
	(85.1%)	(9.0%)	(9.0%)	(82.1%)	(10.4%)	(7.5%)	(88.1%)	(10.4%)	(1.5%)	(83.6%)	(9.0%)	(7.5%)
Total (92)	75	11	6	73	8	11	74	15	3	75	6	11
	(81.5%)	(12.0%)	(6.5%)	(79.3%)	(8.7%)	(12.0%)	(80.4%)	(16.3%)	(3.3%)	(81.5%)	(6.5%)	(12.0%)