

Supplementary

Table S1. Identification results on the Autof MS1000 and Bruker Biotyper

Classification	No. of isolates	Autof MS1000	Bruker Biotyper	Statistical results	Autof MS1000	Bruker Biotyper	Statistical results
		Genus level (%)	Genus level	<i>p</i>	species level (%)	species level (%)	<i>p</i>
GNB	1449	1449 (100)	1445 (99.7)	0.125	1434 (99.0)	1430 (98.7)	0.490
GNC	27	26 (96.3)	26 (96.3)	1	26 (96.3)	26 (96.3)	1
GPC	659	659 (100)	658 (99.8)	1	656 (99.5)	655 (99.4)	1
GPB	52	48 (92.3)	47 (90.4)	1	46 (88.5)	45 (86.5)	0.767
AB	22	22 (100)	22 (100)	1	22 (100)	22 (100)	1
YST	133	132 (99.2)	131 (98.5)	1	132 (99.2)	130 (97.7)	0.622
Total	2342	2336 (99.7)	2329 (99.4)	0.108	2316 (98.9)	2308 (98.5)	0.299

Abbreviations: GNB, gram-negative bacilli; GPC, gram-positive cocci; GPB, gram-positive bacilli; GNC, gram-negative cocci; AB: anaerobic bacteria.

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GNB								
<i>Escherichia coli</i>	447	447 (100)	0	0	447 (100)	0	0	1
<i>Klebsiella pneumoniae</i>	246	246 (100)	0	0	246 (100)	0	0	1
<i>Acinetobacter baumannii</i>	187	186 (99.5)	1 (0.5)	0	186 (99.5)	1 (0.5)	0	1
<i>Pseudomonas aeruginosa</i>	149	149 (100)	0	0	149 (100)	0	0	1
<i>Enterobacter cloacae</i>	65	64 (98.5)	1 (1.5)	0	65 (100)	0	0	1
<i>Burkholderia cepacia</i>	61	61 (100)	0	0	61 (100)	0	0	1
<i>Stenotrophomonas maltophilia</i>	42	42 (100)	0	0	42 (100)	0	0	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GNB								
<i>Proteus mirabilis</i>	38	38 (100)	0	0	38 (100)	0	0	1
<i>Serratia marcescens</i>	28	28 (100)	0	0	28 (100)	0	0	1
<i>Klebsiella oxytoca</i>	23	23 (100)	0	0	23 (100)	0	0	1
<i>Haemophilus influenzae</i>	20	20 (100)	0	0	20 (100)	0	0	1
<i>Enterobacter aerogenes</i>	16	16 (100)	0	0	16 (100)	0	0	1
<i>Morganella morganii</i>	13	13 (100)	0	0	13 (100)	0	0	1
<i>Citrobacter freundii</i>	13	12 (92.3)	1 (7.7)	0	12 (92.3)	1 (7.7)	0	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GNB								
<i>Aeromonas hydrophila</i>	10	9 (90)	1 (10)	0	8 (80)	2 (20)	0	1
<i>Salmonella</i> spp.	9	1 (11.1)	8 (88.9)	0	0	8 (88.9)	1 (11.1)	1
<i>Proteus vulgaris</i>	9	9 (100)	0	0	9 (100)	0	0	1
Other	73	70 (95.9)	3 (4.1)	0	66 (90.4)	4 (5.5)	3 (4.1)	0.263
Subtotal	1449	1434 (99.0)	15 (1.0)	0	1430 (98.7)	15 (1.0)	4 (0.3)	0.189
GNC								
<i>Moraxella catarrhalis</i>	15	14 (93.3)	0	1 (6.7)	14 (93.3)	0	1 (6.7)	1
Other	12	12 (100)	0	0	12 (100)	0	0	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GNC								
Subtotal	27	26 (96.3)	0	1 (3.7)	26 (96.3)	0	1 (3.7)	1
GPC								
<i>Staphylococcus aureus</i>	175	175 (100)	0	0	175 (100)	0	0	1
<i>Enterococcus faecium</i>	103	103 (100)	0	0	103 (100)	0	0	1
<i>Staphylococcus epidermidis</i>	79	79 (100)	0	0	79 (100)	0	0	1
<i>Enterococcus faecalis</i>	67	67 (100)	0	0	67 (100)	0	0	1
<i>Staphylococcus hominis</i>	56	56 (100)	0	0	55 (98.2)	1 (1.8)	0	1
<i>Streptococcus pneumoniae</i>	28	28 (100)	0	0	28 (100)	0	0	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper (continued)

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GPC								
<i>Staphylococcus haemolyticus</i>	23	22 (95.7)	1 (4.3)	0	21 (91.3)	2 (8.7)	0	1
<i>Staphylococcus capitis</i>	19	19 (100)	0	0	19 (100)	0	0	1
<i>Streptococcus anginosus</i>	16	16 (100)	0	0	16 (100)	0	0	1
<i>Streptococcus agalactiae</i>	13	13 (100)	0	0	13 (100)	0	0	1
<i>Streptococcus pyogenes</i>	9	9 (100)	0	0	9 (100)	0	0	1
Other	52	50 (96.2)	2 (3.8)	0	51 (98.1)	0	1 (1.9)	0.495
Subtotal	659	656 (99.5)	3 (0.5)	0	655 (99.4)	3 (0.5)	1 (0.2)	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper (continued)

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
GPB								
<i>Corynebacterium striatum</i>	11	11 (100)	0	0	11 (100)	0	0	1
<i>Mycobacterium</i> spp.	9	7 (77.8)	0	2 (22.2)	7 (77.8)	0	2 (22.2)	1
<i>Nocardia</i> spp.	8	6 (75)	1 (12.5)	1 (12.5)	5 (62.5)	1 (12.5)	2 (25)	1
<i>Listeria monocytogenes</i>	6	6 (100)	0	0	6 (100)	0	0	1
Other	18	16 (88.9)	1 (5.6)	1 (5.6)	16 (88.9)	1 (5.6)	1 (5.6)	1
Subtotal	52	46 (88.5)	2 (3.8)	4 (7.7)	45 (86.5)	2 (3.8)	5 (9.6)	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper (continued)

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
AB								
<i>Bacteroides fragilis</i>	14	14 (100)	0	0	14 (100)	0	0	1
Other	8	8 (100)	0	0	8 (100)	0	0	1
Subtotal	22	22 (100)	0	0	22 (100)	0	0	1
YST								
<i>Candida albicans</i>	48	48 (100)	0	0	48 (100)	0	0	1
<i>Candida tropicalis</i>	41	41 (100)	0	0	41 (100)	0	0	1
<i>Candida glabrata</i>	19	19 (100)	0	0	18 (94.7)	1 (5.3)	0	1
<i>Candida parapsilosis</i>	12	12 (100)	0	0	12 (100)	0	0	1

Table S2. MS analysis of common bacteria and yeast on the Autof MS1000 and Bruker Biotyper (continued)

Classification	N	No. (%) of strains identified with the Autof MS1000			No. (%) of strains identified with the Bruker Biotyper			Comparison <i>P</i>
		Species level (%)	Misidentified (%)	Not identified (%)	Species level (%)	Misidentified (%)	Not identified (%)	
YST								
Other	13	12 (92.3)	0	1 (7.7)	11 (84.6)	0	2 (15.4)	1
Subtotal	133	132 (99.2)	0	1 (0.8)	130 (97.7)	1 (0.8)	2 (1.5)	0.622
Total	2342	2316 (98.9)	20 (0.9)	6 (0.3)	2308 (98.5)	21 (0.9)	13 (0.6)	0.270

Abbreviations: GPC: gram-positive cocci; GPB: gram-positive bacilli; AB: anaerobic bacteria; YST: yeast and yeast-like.

Table S3. Verification of microbial identifications on the Autof MS1000 and Bruker Biotyper

Organism Type	N	Autof MS1000			Bruker Biotyper			Statistic	
		Agree ment %	No identif ication %	Disc repa ncy %	Agree ment %	No identif icatio n %	Dis crep anc y %	X ²	P
Gram-negative Enterobacteriaceae and Non-Enterobacteriaceae	69	94.2	0	2.9	94.2	0	2.9	0	1
Gram-negative fastidious	30	100	0	0	100	0	0	-	1
Gram-positive aerobic	66	97.0	0	3.0	98.5	0	1.5	0	1
Anaerobic	30	100	0	0	100	0	0	0	1
Yeast and yeast-like	34	100	0	0	97.1	0	2.9	-	1
Total	229	97.4	0	2.6	97.4	0	2.6	0	1

-: Fisher test without x² value.