



## **CERTIFIED STRAINS**

### **BACTERIA**

The following list presents the offered by NBIMCC certified strains with application for quality control, research and teaching purposes, as type strains, etc.

<b>No</b>	<b>Species name (synonym)</b>	<b>NBIMCC Number</b>	<b>WDCM Number</b>	<b>Type strain</b>	<b>Teaching strain</b>
1.	<i>Acetobacter aceti</i>	8850		✓	✓
2.	<i>Acinetobacter baumannii</i>	554			
3.	<i>Acinetobacter junii</i>	146		✓	
4.	<i>Actinobacillus equuli</i> subsp. <i>equuli</i>	555		✓	
5.	<i>Aerococcus viridans</i>	8874	00061	✓	
6.	<i>Aeromonas allosaccharophila</i>	8963	00064		
7.	<i>Aeromonas hydrophila</i> subsp. <i>hydrophila</i>	8962	00063	✓	
8.	<i>Aeromonas sobria</i>	9018		✓	
9.	<i>Agrobacterium radiobacter</i>	3310			
10.	<i>Alcaligenes faecalis</i> subsp. <i>faecalis</i>	153		✓	
11.	<i>Anoxybacillus rupiensis</i>	8387		✓	
12.	<i>Arthrobacter globiformis</i>	2369		✓	
13.	<i>Bacillus atrophaeus</i>	1208			
14.	<i>Bacillus badius</i>	2210		✓	
15.	<i>Bacillus cereus</i>	1085	00001		
16.	<i>Bacillus cereus</i>	8935	00001		
17.	<i>Bacillus circulans</i> (current name <i>Niallia circulans</i> )	1042		✓	
18.	<i>Bacillus coagulans</i> (current name <i>Weizmannia coagulans</i> )	8941	00002	✓	
19.	<i>Bacillus licheniformis</i>	3346	00068	✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
20.	<i>Bacillus megaterium</i> (current name <i>Priestia megaterium</i> )	8947		✓	✓
21.	<i>Bacillus mycoides</i>	3484		✓	
22.	<i>Bacillus pumilus</i>	560			
23.	<i>Bacillus spizizenii</i>	1709	00003		✓
24.	<i>Bacillus subtilis</i>	1050			
25.	<i>Bacillus subtilis</i>	2353		✓	✓
26.	<i>Bacillus subtilis</i>	3562			
27.	<i>Bacteroides fragilis</i>	8847		✓	
28.	<i>Bifidobacterium animalis</i> subsp. <i>animalis</i>	8820		✓	
29.	<i>Bifidobacterium bifidum</i>	8744		✓	
30.	<i>Bifidobacterium bifidum</i>	9016			
31.	<i>Bifidobacterium breve</i>	9012	00224	✓	
32.	<i>Bifidobacterium breve</i>	9015			
33.	<i>Bifidobacterium longum</i> subsp. <i>infantis</i>	8822		✓	
34.	<i>Bifidobacterium longum</i> subsp. <i>longum</i>	8821	00225	✓	✓
35.	<i>Bordetella bronchiseptica</i>	1051			
36.	<i>Brevibacillus brevis</i>	2211		✓	
37.	<i>Brevibacillus laterosporus</i>	8942		✓	
38.	<i>Brevundimonas diminuta</i>	1418			
39.	<i>Brochothrix thermosphacta</i>	8039	00071	✓	
40.	<i>Burkholderia cepacia</i>	8566		✓	
41.	<i>Burkholderia gladioli</i> pv. <i>alliicola</i>	8616			
42.	<i>Burkholderia gladioli</i> pv. <i>gladioli</i>	8569		✓	
43.	<i>Campylobacter coli</i>	8750	00004		
44.	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	8652		✓	
45.	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	8936		✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
46.	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	8753	00005		
47.	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	8886	00156		
48.	<i>Campylobacter upsaliensis</i>	8885	00074		
49.	<i>Cellulomonas fimi</i>	2205		✓	
50.	<i>Citrobacter freundii</i>	3731		✓	
51.	<i>Citrobacter freundii</i>	8748	00006		
52.	<i>Clostridium perfringens</i>	8615	00007	✓	
53.	<i>Clostridium perfringens</i>	8883	00174		
54.	<i>Clostridium perfringens</i>	8945	00080		
55.	<i>Clostridium sporogenes</i>	8783	00008		
56.	<i>Clostridium sporogenes</i>	8784			
57.	<i>Clostridium thermosaccharolyticum</i>	8957	00135	✓	
58.	<i>Comamonas terrigena</i>	1797		✓	
59.	<i>Cronobacter sakazakii</i>	8667	00214	✓	
60.	<i>Curtobacterium albidum</i>	8955		✓	
61.	<i>Curtobacterium luteum</i>	1434		✓	
62.	<i>Enterobacter cloacae</i>	8570	00083	✓	
63.	<i>Enterobacter hormaechei</i>	8894		✓	
64.	<i>Enterococcus avium</i>	983		✓	
65.	<i>Enterococcus faecalis</i>	733			
66.	<i>Enterococcus faecalis</i>	3360	00009	✓	
67.	<i>Enterococcus faecalis</i>	3668			
68.	<i>Enterococcus faecalis</i>	3915	00087		
69.	<i>Enterococcus faecalis</i>	8342	00085		
70.	<i>Enterococcus faecalis</i>	8875	00176		
71.	<i>Enterococcus faecalis</i>	8876	00210		

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
72.	<i>Enterococcus faecium</i>	3587	00088		
73.	<i>Enterococcus faecium</i>	8754	00010	✓	
74.	<i>Enterococcus faecium</i>	8873	00177		
75.	<i>Enterococcus hirae</i>	8326	00011		
76.	<i>Enterococcus hirae</i>	8851	00089	✓	
77.	<i>Escherichia coli</i>	3397	00012		
78.	<i>Escherichia coli</i>	3398	00090	✓	
79.	<i>Escherichia coli</i>	3548			
80.	<i>Escherichia coli</i>	3588			
81.	<i>Escherichia coli</i>	3702	00013		
82.	<i>Escherichia coli</i>	8341			
83.	<i>Escherichia coli</i>	8432			✓
84.	<i>Escherichia coli</i>	8785	00014		
85.	<i>Escherichia coli</i>	8877	00202		
86.	<i>Escherichia coli</i>	8946	00179		
87.	<i>Escherichia coli</i>	8905			
88.	<i>Geobacillus stearothermophilus</i>	2282		✓	✓
89.	<i>Geobacillus stearothermophilus</i>	2311			
90.	<i>Geobacillus stearothermophilus</i> var. <i>calidolactis</i>	2330	00069		
91.	<i>Geobacillus stearothermophilus</i> var. <i>calidolactis</i>	8972	00069		
92.	<i>Gluconobacter oxydans</i>	1043			
93.	<i>Haemophilus influenzae</i> biotype II	8801		✓	
94.	<i>Haemophilus influenzae</i> biotype IV	8802			
95.	<i>Haemophilus influenzae</i> biotype II	8906			
96.	<i>Hafnia alvei</i>	1229	00095	✓	
97.	<i>Klebsiella aerogenes</i>	3699	00175	✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
98.	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	1058			
99.	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	3670	00097	✓	
100.	<i>Klebsiella pneumoniae</i> subsp. <i>pneumoniae</i>	8343			
101.	<i>Kocuria rhizophila</i>	159			✓
102.	<i>Kocuria varians</i>	8958		✓	
103.	<i>Lactobacillus acidophilus</i>	1379			
104.	<i>Lactobacillus acidophilus</i>	8896	00098	✓	
105.	<i>Lactobacillus alimentarius</i> (current name <i>Companilactobacillus alimentarius</i> )	3315		✓	
106.	<i>Lactobacillus amylovorus</i>	3349		✓	
107.	<i>Lactobacillus animalis</i> (current name <i>Ligilactobacillus animalis</i> )	1588		✓	
108.	<i>Lactobacillus brevis</i> (current name <i>Levilactobacillus brevis</i> )	3448	00099	✓	✓
109.	<i>Lactobacillus casei</i> (current name <i>Lacticaseibacillus casei</i> )	3485	00100	✓	
110.	<i>Lactobacillus crispatus</i>	2446			
111.	<i>Lactobacillus crispatus</i>	9017		✓	
112.	<i>Lactobacillus curvatus</i> (current name <i>Latilactobacillus curvatus</i> )	3452		✓	
113.	<i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>	1132	00102	✓	✓
114.	<i>Lactobacillus delbrueckii</i> subsp. <i>delbrueckii</i>	2449		✓	
115.	<i>Lactobacillus delbrueckii</i> subsp. <i>lactis</i>	1012		✓	
116.	<i>Lactobacillus fermentum</i> (current name <i>Limosilactobacillus fermentum</i> )	505			
117.	<i>Lactobacillus gasseri</i>	2450	00103		
118.	<i>Lactobacillus helveticus</i>	1011		✓	
119.	<i>Lactobacillus hilgardii</i> (current name <i>Lentilactobacillus hilgardii</i> )	3445		✓	
120.	<i>Lactobacillus murinus</i> (current name <i>Ligilactobacillus murinus</i> )	9068		✓	
121.	<i>Lactobacillus paracasei</i> subsp. <i>paracasei</i> (current name <i>Lacticaseibacillus paracasei</i> subsp. <i>paracasei</i> )	8458		✓	
122.	<i>Lactobacillus plantarum</i> (current name <i>Lactiplantibacillus plantarum</i> )	3447	00104	✓	✓
123.	<i>Lactobacillus reuteri</i> (current name <i>Limosilactobacillus reuteri</i> )	9069		✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
124.	<i>Lactobacillus rhamnosus</i> (current name <i>Lacticaseibacillus rhamnosus</i> )	1010	00101	✓	
125.	<i>Lactobacillus rhamnosus</i> (current name <i>Lacticaseibacillus rhamnosus</i> )	1013			
126.	<i>Lactobacillus sakei</i> subsp. <i>sakei</i> (current name <i>Latilactobacillus sakei</i> ssp. <i>sakei</i> )	3453	00015	✓	
127.	<i>Lactobacillus salivarius</i> (current name <i>Ligilactobacillus salivarius</i> )	1589		✓	
128.	<i>Lactococcus cremoris</i>	8919		✓	
129.	<i>Lactococcus lactis</i> subsp. <i>lactis</i>	4000	00016	✓	✓
130.	<i>Legionella anisa</i>	8852	00106	✓	
131.	<i>Legionella pneumophila</i> subsp. <i>frazieri</i> ser. 4	8887	00180	✓	
132.	<i>Legionella pneumophila</i> subsp. <i>pneumophila</i> ser. 1	8848	00107	✓	
133.	<i>Leuconostoc mesenteroides</i> subsp. <i>dextranicum</i>	1397		✓	
134.	<i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i>	3455		✓	✓
135.	<i>Leuconostoc suionicum</i>	8971	00108	✓	
136.	<i>Listeria innocua</i>	8755	00017	✓	
137.	<i>Listeria ivanovii</i> subsp. <i>ivanovii</i> ser. 5	8756	00018	✓	
138.	<i>Listeria monocytogenes</i> ser. 4b	8632	00019		
139.	<i>Listeria monocytogenes</i> ser. 1/2a	8669		✓	
140.	<i>Listeria monocytogenes</i> ser. 4b	8745	00019		
141.	<i>Listeria monocytogenes</i> ser. 1	8749	00020		
142.	<i>Listeria monocytogenes</i> ser. 4b	8787	00021		
143.	<i>Listeria monocytogenes</i> ser. 1/2a	8849	00109		
144.	<i>Mannheimia haemolytica</i>	8367		✓	
145.	<i>Microbacterium flavescens</i>	2370		✓	
146.	<i>Micrococcus luteus</i>	1439	00111	✓	
147.	<i>Micrococcus luteus</i>	8934	00111	✓	✓
148.	<i>Morganella morganii</i> subsp. <i>morganii</i>	1392	00112	✓	
149.	<i>Paenibacillus larvae</i> subsp. <i>larvae</i>	8478		✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
150.	<i>Paenibacillus macerans</i>	2214		✓	
151.	<i>Paenibacillus polymyxa</i>	3664		✓	
152.	<i>Paraclostridium bifermentans</i>	8943	00079		
153.	<i>Pediococcus acidilactici</i>	8788			
154.	<i>Pediococcus damnosus</i>	8757	00022	✓	
155.	<i>Pediococcus pentosaceus</i>	8870	00158	✓	
156.	<i>Proteus hauseri</i>	1393			
157.	<i>Proteus mirabilis</i>	8747	00023	✓	
158.	<i>Pseudomonas aeruginosa</i>	1390	00026		
159.	<i>Pseudomonas aeruginosa</i>	3590			
160.	<i>Pseudomonas aeruginosa</i>	3700	00025		
161.	<i>Pseudomonas aeruginosa</i>	3732	00024	✓	
162.	<i>Pseudomonas aeruginosa</i>	8746	00027		
163.	<i>Pseudomonas aeruginosa</i>	8988	00207		
164.	<i>Pseudomonas alcaligenes</i>	2453		✓	
165.	<i>Pseudomonas fluorescens</i>	8758	00115	✓	✓
166.	<i>Pseudomonas fragi</i>	8869	00116	✓	
167.	<i>Pseudomonas putida</i>	1090	00117	✓	
168.	<i>Pseudomonas viridiflava</i>	8725			
169.	<i>Rhodococcus hoagii</i>	1230	00028	✓	
170.	<i>Salmonella enterica</i> subsp. <i>enterica</i> ser. Abony	2333	00029		
171.	<i>Salmonella enterica</i> subsp. <i>enterica</i> ser. Dublin	3554		✓	
172.	<i>Salmonella enterica</i> subsp. <i>enterica</i> ser. Typhimurium	3669	00031		
173.	<i>Salmonella enterica</i> subsp. <i>enterica</i> ser. Agona	4798			
174.	<i>Salmonella enterica</i> subsp. <i>enterica</i> ser. Enteritidis	8691	00030	✓	
175.	<i>Serratia marcescens</i>	1417			

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
176.	<i>Shigella sonnei</i>	8646			
177.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	509	00033		
178.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	746		✓	
179.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	3081	00035		
180.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	3359	00032		
181.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	3671			
182.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	3703	00034		
183.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	3999	00131		
184.	<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	8327	00211		
185.	<i>Staphylococcus auricularis</i>	8964		✓	
186.	<i>Staphylococcus delphini</i>	8960		✓	
187.	<i>Staphylococcus epidermidis</i>	1093	00132	✓	
188.	<i>Staphylococcus epidermidis</i>	3486	00036		
189.	<i>Staphylococcus epidermidis</i>	8937	00036		
190.	<i>Staphylococcus hyicus</i>	1094		✓	
191.	<i>Staphylococcus intermedius</i>	8959		✓	
192.	<i>Staphylococcus pseudintermedius</i>	8961		✓	
193.	<i>Staphylococcus saprophyticus</i> subsp. <i>saprophyticus</i>	3348	00159	✓	
194.	<i>Stenotrophomonas maltophilia</i>	8895		✓	
195.	<i>Streptococcus agalactiae</i>	1395			
196.	<i>Streptococcus dysgalactiae</i> subsp. <i>dysgalactiae</i>	1396			
197.	<i>Streptococcus mutans</i>	1786		✓	
198.	<i>Streptococcus pneumoniae</i>	8789		✓	
199.	<i>Streptococcus pyogenes</i>	941		✓	
200.	<i>Streptococcus salivarius</i> subsp. <i>thermophilus</i>	3916	00134	✓	✓
201.	<i>Vibrio parahaemolyticus</i>	8743	00037	✓	

No	Species name (synonym)	NBIMCC Number	WDCM Number	Type strain	Teaching strain
202.	<i>Vibrio vulnificus</i>	8965	00139	✓	
203.	<i>Weissella viridescens</i>	8897	00105	✓	
204.	<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> ser. O:8	8739	00038	✓	
205.	<i>Yersinia enterocolitica</i> subsp. <i>paleartica</i> ser. O:3	8791	00039		
206.	<i>Yersinia enterocolitica</i> subsp. <i>paleartica</i> ser. O:3	8872	00039		
207.	<i>Yersinia enterocolitica</i> subsp. <i>paleartica</i> ser. O:3	9008	00216	✓	