

# REFERENCE STRAIN CATALOGUE PERTAINING TO ORGANISMS FOR PERFORMANCE TESTING OF CULTURE MEDIA

This catalogue is placed on line in response to a request by the ISO TC 34 SC 9 Joint Working Group 5 and the ICFMH-WPCM.

## Foreword

This catalogue was produced to enable broader and easier access to the reference strains listed by the ISO TC 34 SC 9 Joint Working Group 5 in the ISO 11133<sup>1</sup> and by the Working Party on Culture Media of the International Committee on Food Microbiology and Hygiene (ICFMH-WPCM) in their publication *Handbook of Culture Media for Food and Water Microbiology*.<sup>2</sup> It fulfils a need expressed by these bodies for a unique system of identifiers for strains recommended for use in quality assurance. The WFCC and the WDCM have initiated a system that will help users find local sources of the reference strains by citing all collections and providing contact details and the collection's unique reference. Future publications of the ISO and ICFMH-WPCM will cite the WDCM reference number for each strain and this catalogue provides the collection acronyms and strain numbers of the relevant strains so that they may be found.

## TABLE OF CONTENTS

1.	<b>List of Strains – listing WDCM unique identifiers and links to source collections</b>	
	<b>a. Bacteria</b>	<b>2 – 13</b>
	<b>b. Filamentous Fungi and Yeasts</b>	<b>13 – 16</b>
2.	<b>Strains Listed by WDCM Number</b>	<b>17 – 27</b>
3.	<b>List of Collections and contacts</b>	<b>28 – 32</b>

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<sup>1</sup> ISO/DIS 11133:2012, Annex E. Test microorganisms and performance criteria for culture media commonly used in food microbiology and Annex F. Test microorganisms for culture media commonly used in water microbiology

<sup>2</sup> Corry, J E L, Curtis, G D W and Baird, R M (Eds) *Handbook of Culture Media for Food and Water Microbiology*. 3<sup>rd</sup> edition. Royal Society of Chemistry, Cambridge, UK. 2012.

## Part 1: Strains

### Bacteria

#### *Acinetobacter* sp.

WDCM 00060 | NCIMB 10764; NCIMB(QC) 50011

#### *Aerococcus viridans*

WDCM 00061 | ATCC™ 11563; BCRC 14290; CCM 1914; CCUG 4311; CECT 978; CIP 54.145; DSM 20340; HNCMB 86001; IFO 12219; LMG 17931; NCIMB 11775; NCIMB(QC) 50012; NCTC 8251

#### *Aeromonas caviae*

WDCM 00062 | ATCC™ 15468; BCRC 16001; CCM 4491; CCUG 25939; CIP 76.16; DSM 7323; LMG 3775; NCIMB 13016

#### *Aeromonas hydrophila*

WDCM 00063 | ATCC™ 7966; BCRC 13018; CCM 7232; CCUG 14551; CIP 76.14; DSM 30187; JCM 1027; LMG 2844; NCIMB(QC) 50013; NCTC 8049

#### *Aeromonas sobria*

WDCM 00064 | ATCC™ 35993; CCUG 14550; LMG 12670; NCTC 11215

#### *Arcobacter butzleri*

WDCM 00065 | ATCC™ 49616; CCUG 30485; CIP 103537; DSM 8739; LMG 10828; NCTC 12481

#### *Arcobacter cryaerophilus*

WDCM 00066 | ATCC™ 43158; CCM 3933; CCUG 17801; CIP 104014; DSM 7289 : LMG 24291; NCTC 11885

#### *Arcobacter skirrowii*

WDCM 00067 | ATCC™ 51132; CCUG 10374; CIP 103538; DSM 7302; LMG 6621; NCTC 12713

#### *Bacillus cereus*

WDCM 00001 | ATCC™ 9634; ATCC™ 11778; BCRC 10446; CCM 869; CIP 64.52; DSM 345; LMG 8221; NCIMB 8012; NCIMB 9231; NCTC 10320

WDCM 00151 | ATCC™ 7004; BCRC 11837; LMG 6910; NCIMB 8079; NRS 721

#### *Bacillus coagulans*

WDCM 00002 | ATCC™ 7050; BCRC 10606; CCM 2013; CCUG 7417; CECT 12; CIP 66.25; CN 2202; DSM 1; FIRDI 606; IAM 1115; IAM 12463; IFO 12583; JCM 2257; LMG 17450; LMG 17455; LMG 6326; NCFB 1761; NCIMB 9365; NCTC 10334; NRRL NRS-609; OUT 8348; OUT 8403; USCC 2116

*Bacillus licheniformis*

WDCM 00068 | ATCC™ 14580; BCRC 11702; CCM 2145; CCUG 7422; CECT 20; CIP 52.71; DSM 13; IFO 12200; JCM 2505; LMG 12363; NCIMB 9375; NCIMB(QC) 50016; NCTC 10341

*Bacillus stearothermophilus* → *Geobacillus stearothermophilus*

WDCM 00069 | ATCC™ 10149; BCRC 10610; CCM 5965; CIP 105453; DSM 6790; JCM 11297; LMG 17962

*Bacillus subtilis*

WDCM 00070 | LMG 17728; NCIMB 13061; NCIMB(QC) 50018; NCTC 5398

*Bacillus subtilis* subsp. *spizizenii*

WDCM 00003 | ATCC™ 6633; CCM 1999; CIP 52.62; DSM 347; IFO 3134; IFO 13720; JCM 2499; LMG 8197; NCIB 8054; NCIMB 8566; NCTC 10400; NRS 231

*Brochothrix thermosphacta*

WDCM 00071 | ATCC™ 11509; BCRC 12300; CCM 4769; CCUG 35132; CECT 847; CIP 103251; DSM 20171; LMG 17208; NCIMB 10018; NCIMB(QC) 50019; NCTC 10822

*Campylobacter coli*

WDCM 00004 | ATCC™ 43478; CCM 7227; LMG 21266

WDCM 00072 | ATCC™ 33559; CCUG 11283; CIP 70.80; DSM 4689; JCM 2529; LMG 6440; NCIMB(QC) 50092; NCTC 11366

WDCM 00171 | ATCC™ 43133

*Campylobacter jejuni* subsp. *jejuni*

WDCM 00005 | ATCC™ 33291; CCUG 33057; LMG 18455

WDCM 00073 | ATCC™ 700819; CCUG 6824; CIP 107370; LMG 8842; NCIMB(QC) 50091; NCTC 11168

WDCM 00156 | ATCC™ 29428; CCM 7212; CCUG 39973; CIP 103778; NCTC 11322

WDCM 00172 | ATCC™ 35918

WDCM 00173 | ATCC™ 35919

*Campylobacter lari*

WDCM 00204 | ATCC 35221; CCUG 10773; DSM 11375; LMG 7605; NCTC 11352

*Campylobacter upsaliensis*

WDCM 00074 | ATCC™ 43953; CCUG 24803; LMG 8852; NCTC 11540

*Carnobacterium divergens*

WDCM 00075 | ATCC™ 35677; BCRC 14042; CCM 4117; CCUG 30094; CECT 4016; CIP 101029; DSM 20623; JCM 5816; LMG 9199; NCIMB 11952; NCIMB(QC) 50021

*Carnobacterium piscicola* → *Carnobacterium maltaromaticum*

WDCM 00076 | CIP 110052; DSM 20624; LMG 11391; NCIMB 13093; NCIMB(QC) 50020

*Citrobacter freundii*

WDCM 00006 | ATCC™ 43864; CCM 7187; CIP 103547; LMG 21265

WDCM 00077 | NCIMB 8645; NCIMB(QC) 50025; NCTC 6272

WDCM 00078 | ATCC™ 6750; CIP 110053; DSM 30040; NCIMB 8173

*Clostridium bifermentans*

WDCM 00079 | CECT 550; CIP 110068; NCIMB 506; NCIMB(QC) 50026; NCTC 506

*Clostridium perfringens*

WDCM 00174 | ATCC™ 10543

WDCM 00201 | NCTC 13170

Note: Previously listed at WDCM 00189.

*Clostridium perfringens* (haemolytic)

WDCM 00007 | ATCC™ 13124; ATCC™ 19408; BCRC 10913; CCM 4435; CCTM La 2957; CCUG 1795; CECT 376; CIP 103409; CN 1491; CNCTC CI 68/83; DSM 756; FIRDI 913; JCM 1290; LMG 11264; NCIMB 6125; NCTC 6125; NCTC 8237

*Clostridium perfringens* (non-haemolytic)

WDCM 00080 | ATCC™ 12916; CCM 7176; NCIMB 13079; NCTC 8238

*Clostridium sporogenes*

WDCM 00008 | ATCC™ 19404; BCRC 11258; CCM 4409; CIP 79.03; DSM 1664; LMG 10143; NCIMB 532; NCTC 532

*Desulfotomaculum nigrificans*

WDCM 00081 | ATCC™ 19858; BCRC 14424; DSM 574; IFO 13698; NCIMB 8395

*Enterobacter aerogenes*

WDCM 00175 | ATCC™ 13048; CIP 60.86

*Enterobacter cloacae*

WDCM 00082 | ATCC™ 23355; CCUG 33777; CECT 5075; CIP 103550

WDCM 00083 | ATCC™ 13047; BCRC 10401; CCUG 6323; CIP 60.85; DSM 30054; IFO 13535; JCM 1232; LMG 2783; NCIMB 10101; NCIMB(QC) 50122; NCTC 10005

WDCM 00200 | NCTC 13168  
Note: Previously listed at WDCM 00188.

*Enterococcus faecalis*

WDCM 00009 | ATCC™ 19433; BCRC 10066; CCM 7000; CCUG 19916; CECT 481; CIP 103015; DSM 20478; FIRDI 66; LMG 7937; NCFB 581; NCIMB 775; NCTC 775; RIMD 3116001

WDCM 00084 | CECT 4176; NCIMB 8260; NCIMB(QC) 50030; NCTC 8213

WDCM 00085 | ATCC™ 51299; CCM 4647; CIP 104676; DSM 12956; LMG 16216; NCTC 13379

WDCM 00087 | ATCC™ 29212; BCRC 10789; CCM 4224; CIP 103214; DSM 2570; JCM 2875; LMG 8222; NCIMB(QC) 50112; NCTC 12697

WDCM 00152 | see WDCM 00085

WDCM 00153 | CIP 110054; DSM 13591

WDCM 00176 | CCM 2541; CIP 106877

*Enterococcus faecium*

WDCM 00010 | ATCC™ 19434; BCRC 10067; CCM 7167; CCRC 10067; CCUG 542; CECT 410; CIP 103014; DSM 20477; GIFU 8355; JCM 5804; LMG 8149; LMG 11423; LMG 12692; NCFB 942; NCIMB 11508; NCTC 7171; NRIC 1145

WDCM 00088 | CECT 4102; CIP 110050; DSM 2918; LMG 11397; NCIMB 12672; NCIMB(QC) 50032

WDCM 00154 | CIP 110055; DSM 13590

WDCM 00177 | ATCC™ 6057; CIP 106742

WDCM 00178 | CCM 7800; CIP 106876; NCTC 13169

*Enterococcus hirae*

WDCM 00011 | ATCC™ 10541; BCRC 11547; CCM 4533; CIP 58.55; DSM 3320; LMG 10274; NCIMB 8192; NCTC 13383; PCI 1341

WDCM 00089 | ATCC™ 8043; BCRC 11054; CCM 2423; CCUG 1332; CECT 279; CIP 53.48; DSM 20160; LMG 6399; NCIMB 8123; NCIMB(QC) 50031; NCTC 6459

*Escherichia coli*

WDCM 00012 | ATCC™ 8739; BCRC 11634; CCM 4517; CIP 53.126; DSM 1576; IFO 3972; IMET 11121; LMG 8063; NCDO 904; NCIMB 8545; NCTC 12923

WDCM 00013 | ATCC™ 25922; BCRC 11509; CCM 3954; CIP 76.24; DSM 1103; LMG 8223; NCIMB 12210; NCTC 12241

WDCM 00090 | ATCC™ 11775; BCRC 10675; CCM 5172; CCUG 24; CECT 515; CIP 54.8; DSM 30083; LMG 2092; NCIMB 11943; NCIMB(QC) 50034; NCTC 9001

WDCM 00091 | NCIMB 13059; NCIMB(QC) 50035; NCTC 10090

WDCM 00093 | CIP 105180; NCTC 12079

WDCM 00094 | CIP 105181; NCTC 12080

WDCM 00155 | see WDCM 00090

WDCM 00179 | CCM 7801; CIP 106878; NCTC 13169

WDCM 00188 | ATCC™ 43895; BCRC 14824; CCRC 14824; CECT 4783; CIP 106327

Note :This number was previously allocated to a strain of *Enterobacter cloacae* now listed at WDCM 00200.

WDCM 00196 | ATCC™ 8739; DSM 1576; NBRC 3972

WDCM 00202 | NCTC 13216

Note: Previously listed at WDCM 00190.

*Escherichia coli* serotype O157:H7 (non-toxigenic)

WDCM 00014 | ATCC™ 700728; BDMS T4169; CCM 4787; LMG 21756; NCIMB (QC) 50139; NCTC 12900

*Hafnia alvei*

WDCM 00095 | ATCC™ 13337; CCUG 15720; CECT 158; CIP 57.31; DSM 30163; JCM 1666; LMG 10392; NCIMB 11999; NCIMB(QC) 50037; NCTC 8105

*Klebsiella oxytoca*

WDCM 00096 | CIP 110043; NCIMB 12819; NCIMB(QC) 50038

*Klebsiella pneumoniae*

WDCM 00097 | ATCC™ 13883; BCRC 10692; CCM 7798; CCUG 225; CIP 82.91; DSM 30104; JCM 1662; LMG 2095; NCIMB 13281; NCIMB(QC) 50108; NCTC 9633

WDCM 00192 | ATCC™ 4352; CIP 104216; DSM 789; NBRC 13277; NCIMB 10341

WDCM 00206 | ATCC™ 31488

*Lactobacillus acidophilus*

WDCM 00098 | ATCC™ 4356; BCRC 10695; CCM 4833; CIP 76.13; DSM 20079;  
LMG 9433; NCIMB 8690; NCIMB(QC) 50101; NCTC 12980

*Lactobacillus brevis*

WDCM 00099 | ATCC™ 14869; BCRC 12187; CCM 3805; CCUG 30670; CIP  
102806; DSM 20054; JCM 1059; LMG 6906; NCIMB 11973;  
NCIMB(QC) 50043

*Lactobacillus casei*

WDCM 00100 | ATCC™ 393; BCRC 10697; CCM 7088; CCUG 21451; CIP 103137;  
DSM 20011; JCM 1134; LMG 6904; NCIMB 11970

*Lactobacillus rhamnosus*

WDCM 00101 | ATCC™ 7469; BCRC 10940; BUCSAV 227; CCM 1825; CIP A157;  
DSM 20021; IAM 1118; IFO 3425; JCM 1136; LMG 6400; NCIMB  
8010; NCIMB(QC) 50045

*Lactobacillus delbrueckii* subsp. *bulgaricus*

WDCM 00102 | ATCC™ 11842; BCRC 10696; CCM 7190; CIP 101027; DSM 20081;  
LMG 6901; NCIMB 11778; NCIMB(QC) 50050

*Lactobacillus gasseri*

WDCM 00103 | ATCC™ 19992; BCRC 17615; CCUG 39972; CIP 103699; DSM  
20077; LMG 13047; NCIMB 13081; NCIMB(QC) 50040

*Lactobacillus plantarum*

WDCM 00104 | ATCC™ 14917; BCRC 10069; CCM 7039; CCUG 30503; CECT 748;  
CIP 103151; DSM 20174; IAM 12477; JCM 1149; LMG 6907;  
NCIMB 11974; NCIMB(QC) 50054

*Lactobacillus sakei* subsp. *sakei*

WDCM 00015 | ATCC™ 15521; BCRC 14622; CCM 7203; CCRC 14622; CCUG  
30501; CECT 906; CIP 103139; DSM 20017; IFO 15893; JCM 1157;  
LMG 9468; NCFB 2714; NCIMB 13090; NRIC 1071

*Lactobacillus viridescens* → *Weissella viridescens*

WDCM 00105 | ATCC™ 12706; BCRC 11650; CCM 56; CCUG 30502; CIP 102810;  
DSM 20410; JCM 1174; LMG 3507; NCIMB 8965; NCIMB(QC)  
50057

*Lactococcus lactis* subsp. *lactis*

WDCM 00016 | ATCC™ 9936; ATCC™ 19435; BCRC 12312; BU 302; CCM 1877; CCTM 3105; CCUG 7980; CECT 185; CIP 70.56; CNCTC Str N 25/58; DSM 20481; HNCMB 80146; LMG 6890; NCFB 604; NCIMB 6681; NCTC 6681; USCC 1394

*Legionella anisa*

WDCM 00106 | ATCC™ 35292; BCRC 17043; CCUG 29665; CIP 103870; DSM 17627; JCM 7573; NCTC 11974

*Legionella pneumophila*

WDCM 00180 | ATCC™ 33156; CIP 103858

*Legionella pneumophila* serogroup 1

WDCM 00107 | ATCC™ 33152; BCRC 17854; CCM 7799; CCUG 9568; CIP 103854; DSM 7513; JCM 7571; NCTC 11192

WDCM 00205 | NCTC 12821

*Leuconostoc mesenteroides* subsp. *mesenteroides*

WDCM 00108 | ATCC™ 9135; BCRC 14012; BUCSAV 312; CCM 1851; CIP 110051; DSM 20241; LMG 8159; NCIMB 6992; NCIMB(QC) 50060

*Listeria innocua*

WDCM 00017 | ATCC™ 33090; BCRC 14843; CCM 4030; CIP 80.11; CLIP 12511; DSM 20649; LMG 11387; NCTC 11288

*Listeria ivanovii* subsp. *ivanovii* serovar 5

WDCM 00018 | ATCC™ 19119; BCRC 14844; CCM 5884; CIP 78.42; CLIP 12510; DSM 20750; LMG 11388; NCTC 11846

*Listeria monocytogenes* serovar 1

WDCM 00020 | ATCC™ 19111; CCM 5576; CIP 78.31; DSM 19094; LMG 21263

*Listeria monocytogenes* serovar 1/2a

WDCM 00109 | ATCC™ 35152; BCRC 15342; CCM 5576; CCUG 15527; CIP 104794; LMG 13304; NCTC 7973

*Listeria monocytogenes* serovar 4a

WDCM 00110 | ATCC™ 19114; BCRC 14848; CECT 934; CIP 60.88; LMG 16783; NCTC 5214

*Listeria monocytogenes* serovar 4b



WDCM 00019 | BCRC 15408; DSM 15675; LMG 13305; NCTC 11994

WDCM 00021 | ATCC™ 13932; CCM 7202; CIP 59.53; LMG 21264; NCTC 10527

*Micrococcus luteus*

WDCM 00111 | ATCC™ 4698; BCRC 11034; CCM 169; CCUG 5858; CECT 51; CIP A270; DSM 20030; IAM 1056; IFO 3333; JCM 1464; LMG 4050; NCIMB 9278; NCIMB(QC) 50063; NCTC 2665

*Morganella morganii* subsp. *morganii*

WDCM 00112 | ATCC™ 25830; BCRC 10706; CCUG 6328; CECT 173; CIP A231; DSM 30164; IFO 3848; LMG 7874; NCIMB 235; NCIMB(QC) 50064; NCTC 235

*Pantoea agglomerans*

WDCM 00170 | ATCC™ 27155; CCUG 539; CECT 850; CIP 57.51; DSM 3493; IAM 12659; JCM 1236; NCTC 9381

*Pediococcus damnosus*

WDCM 00022 | ATCC™ 29358; BCRC 12840; CCM 3453; CCUG 32251; CIP 102264; DSM 20331; JCM 5886; LMG 11484; NCFB 1832; NCIMB 12010

*Pediococcus pentosaceus*

WDCM 00158 | ATCC™ 33316; CCM 7796; CECT 4695; CIP 102260; DSM 20336; LMG 11488; NCIMB 12012

*Photobacterium leiognathi*

WDCM 00113 | ATCC™ 25521; BCRC 13806; CCUG 16229; CIP 66.5; DSM 21260; LMG 4228; NCIMB 2193; NCIMB(QC) 50103

*Proteus mirabilis*

WDCM 00023 | ATCC™ 29906; BCRC 13991; CCM 7188; CDC PR14; CECT 4168; CIP 103181; DSM 4479; LMG 3257; NCTC 11938

*Pseudomonas aeruginosa*

WDCM 00024 | AJ 2116; ATCC™ 10145; BCRC 10944; BU 277; CCM 481; CCM 1960; CCTM 2773; CCUG 551; CECT 110; CIP 63.52; CNCTC Ps 153/77; DSM 50071; FIRDI 944; IAM 1514; ICPB 2523; IFO 3756; IFO 12689; IMET 10403; JCM 5962; KM 274; LMG 1242; NCDO 1369; NCIB 8295; NCPPB 1965; NCTC 10332; NRRL B-771; RH 815; UQM 495; USCC 2030; VKM B588

WDCM 00025 | ATCC™ 27853; BCRC 11864; CCM 3955; CCTM 2766; CCTM 2767; CCUG 7737; CCUG 17619; CECT 108; CIP 76.110; CNCTC Ps 133/71; DSM 1117; LMG 6395; LMG 18448; NCIMB 12469; NCTC 12903

WDCM 00026	ATCC™ 9027; BCRC 11633; BUCSAV 728; CCM 1961; CIP 82.118; DSM 1128; IAM 10374; IFO 13275; LMG 8029; NCIMB 8626; NRRL B-800
WDCM 00027	CECT 4080; CIP A22; LMG 10639; NCIMB 13056
WDCM 00114	ATCC™ 25668; CCM 3989; CECT 118; CIP 103837; NCIMB 13063; NCIMB(QC) 50067; NCTC 10662
WDCM 00207	NCTC 12951

*Pseudomonas fluorescens*

WDCM 00115	ATCC™ 13525; BCRC 11028; CCM 2115; CCUG 1253; CECT 378; CIP 69.13; DSM 50090; IAM 12022; IFO 14160; JCM 5963; LMG 1794; NCIMB 9046; NCIMB(QC) 50068; NCTC 10038
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*Pseudomonas fragi*

WDCM 00116	ATCC™ 4973; BCRC 11019; CCM 1974; CCUG 556; CECT 446; CIP 55.4; DSM 3456; IFO 3458; LMG 2191; NCIMB 8542; NCIMB(QC) 50069; NCTC 10689
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*Pseudomonas putida*

WDCM 00117	ATCC™ 12633; BCRC 10459; CCM 7156; CCUG 12690; CECT 324; CIP 52.191; DSM 291; DSM 50906; IFO 14164; LMG 2257; NCIMB 9494; NCIMB(QC) 50070; NCTC 10936
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*Rhodococcus equi*

WDCM 00028	AJ 1402; ATCC™ 6939; ATCC™ 25729; BCRC 12859; CCM 3429; CCUG 892; CECT 555; CIP 54.72; DSM 20307; DSM 43349; IAM 12426; IMET 7467; JCM 1311; LMG 5358; LMG 18452; NCIMB 12828; NCTC 1621; NRRL B-16538
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*Salmonella Abony*

WDCM 00029	CCM 4518; CCUG 20832; CCUG 21354; CIP 80.39; DSM 4224; LMG 18222; NCTC 6017
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*Salmonella Dublin*

WDCM 00118	CECT 4152; NCIMB(QC) 50072; NCTC 9676
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*Salmonella enterica* subsp. *enterica*

WDCM 00030	ATCC™ 13076; ATCC™ 25928; BCRC 10744; CCM 7189; CDC K-1891; CIP 82.97; DSM 9898; LMG 10395
WDCM 00119	CECT 4155; NCIMB(QC) 50073; NCTC 5188

*Salmonella Saintpaul*

WDCM 00120 | CECT 4153; NCTC 6022; NCIMB(QC) 50075

*Salmonella typhimurium* now *Salmonella enterica* subsp. *enterica* serotype *typhimurium*

WDCM 00031 | ATCC™ 14028; BCRC 10747; CCM 7205; CCRC 10747; CDC 6516-60; CIP 104115; DSM 19587; LMG 14933; NCIMB 13284; NCTC 12023

WDCM 00121 | ATCC™ 13311; BCRC 12947; CCM 7933; CCUG 11732; CECT 443; CIP 58.58; DSM 5569; LMG 10396; NCIMB(QC) 50100; NCTC 74

WDCM 00122 | CECT 4156; NCTC 12190

WDCM 00123 | ATCC™ 25241

*Salmonella Virchow*

WDCM 00124 | CECT 4154; CIP 110069; NCIMB(QC) 50077; NCTC 5742

*Shigella flexneri*

WDCM 00125 | ATCC™ 29903; BCRC 13984; CIP 82.48; DSM 4782; NCIMB(QC) 50079

WDCM 00126 | ATCC™ 12022; BCRC 10772; CIP 104222; LMG 10472; NCIMB(QC) 50140

*Shigella sonnei*

WDCM 00127 | ATCC™ 29930; BCRC 15966; CECT 4887; CIP 82.49; DSM 5570; NCTC 12984

*Staphylococcus aureus*

WDCM 00032 | ATCC™ 6538; BCRC 12154; CCM 4516; CCTM 2103; CCUG 1623; CCUG 10778; CECT 239; CIP 4.83; CNCTC Mau 29/58; DSM 799; FIRDI 941; HMGB B865; IEM Mau 29/58; IFO 13276; IMET 10761; LMG 8064; NCIMB 9518; NCTC 10788

WDCM 00033 | AHU 1142; ATCC™ 6538P; BCRC 10451; BTCC 209P; BU 395; CCM 2022; CCTM 596; CCUG 1828; CECT 240; CIP 53.156; CN 3784; CNCTC Mau 28/58; DSM 346; FIRDI 451; IAM 1011; IAM 12082; IEM Mau 28/58; IFO 3061; IFO 12732; IID 671; IMET 10904; JCM 2151; LMG 8195; NCIMB 8625; NCTC 7447; NRRL B-313; OUT 8232; PCI 1209; PZH 8/54; RIMD 3109007; VNIIA 209P

WDCM 00034 | ATCC™ 25923; BCRC 10781; CCM 3953; CCTM 2816; CCUG 7738; CCUG 17621; CECT 435; CIP 76.25; CNCTC Mau 80/73; DSM 1104; JCM 2413; LMG 8224; NCIMB 12702; NCTC 12981

WDCM 00035 | ATCC™ 9144; BCRC 10908; CCM 2107; CIP 53.154; DSM 683; LMG 10640; NCIMB 6571; NCTC 6571; NRRL B314

WDCM 00130 | CIP 110044; NCIMB 12820; NCIMB(QC) 50081

WDCM 00131 | ATCC™ 29213; BCRC 11863; CCM 4223; CIP 103429; DSM 2569; JCM 2874; LMG 10147; NCTC 12973

WDCM 00193 | ATCC™ 6538; ATCC™ 6538P; CIP 4.83; DSM 799; NBRC 12732; NBRC 13276; NCIMB 9518

WDCM 00195 | ATCC™ 6538P; CGMCC 1.89; DSM 346; NBRC 12732

*Staphylococcus epidermidis*

WDCM 00036 | ATCC™ 12228; BCRC 11030; CCM 4418; CIP 68.21; DSM 1798; IFO 12993; LMG 10273; NCIMB 8853; NCTC 13360

WDCM 00132 | ATCC™ 14990; CCM 2124; CIP 81.55; DSM 20044; NCIMB 12721; NCIMB(QC) 50082; NCTC 11047

*Staphylococcus saprophyticus* subsp. *saprophyticus*

WDCM 00159 | ATCC™ 15305; CCM 883; CIP 76.125; DSM 20229

*Streptococcus bovis*

WDCM 00133 | ATCC™ 33317; BCRC 14729; CCUG 17828; CECT 213; CIP 102302; DSM 20480; LMG 8518; NCTC 8177

*Streptococcus thermophilus*

WDCM 00134 | ATCC™ 19258; BCRC 13869; CECT 986; CIP 102303; DSM 20617; LMG 6896; NCIMB 8510; NCIMB(QC) 50083

*Thermoanaerobacterium thermosaccharolyticum*

WDCM 00135 | ATCC™ 7956; DSM 571; NCIMB 9385

*Vibrio cholerae* non 0:1

WDCM 00136 | NCTC 11348

*Vibrio Cholerae* non-01 / non-0139

WDCM 00203 | ATCC™ 14733; NCTC 8042  
Note: Previously listed at WDCM 00191.

*Vibrio fluvialis*

WDCM 00137 | ATCC™ 33809; BCRC 12830; CCM 3689; CCUG 13622; CIP 103355; DSM 19283; LMG 7894; NCIMB 2249; NCIMB(QC) 50084; NCTC 11327

*Vibrio furnissi*

WDCM 00186 | NCTC 11218

*Vibrio parahaemolyticus*

WDCM 00037 | ATCC™ 17802; BCRC 10806; CCTM 2011; CCUG 14474; CCUG

15657; CDC 9062-79; CECT 511; CIP 75.02; DSM 10027; FIRDI 806; LMG 2850; NCMB 1902; NCTC 10903; RIMD 2210001; USCC 2240

WDCM 00138 | NCTC 11344

WDCM 00185 | NCTC 10885

#### *Vibrio vulnificus*

WDCM 00139 | ATCC™ 27562; BCRC 12905; CCUG 13448; CIP 75.4; DSM 10143; LMG 13545; NCIMB 2046; NCIMB(QC) 50104

WDCM 00187 | ATCC™ 29307

#### *Yersinia enterocolitica* biotype 1 serotype 0:8

WDCM 00038 | ATCC™ 9610; BCRC 13999; CCM 7204; CCUG 11291; CCUG 12369; CIP 80.27; DSM 4780; LMG 7899

WDCM 00160 | ATCC™ 23715; NCTC 10598

#### *Yersinia enterocolitica* biotype 4 serotype O:3

WDCM 00039 | CCUG 4586; CCUG 8233; CIP 81.41; DSM 9676; IP 134; LMG 15558; NCIMB(QC) 50087

## Filamentous Fungi and Yeasts

#### *Aspergillus brasiliensis*

WDCM 00053 | ATCC™ 16404; B 42936; BCRC 30506; CCM 8222; DSM 1988; IFO 9455; IHEM 3766; IMI 149007; MUCL 29039; NCPF 2275; UMIP 1431.83  
Note: this strain was formally *Aspergillus niger*

#### *Aspergillus flavus*

WDCM 00141 | BCRC 30144; DSM 1959; IMI 91856ii

WDCM 00142 | A-NRRL 3251; BCRC 30300; CCM 8363; CSIRO 3084

#### *Aspergillus parasiticus*

WDCM 00143 | A-NRRL 2999; BCRC 30164; CSIRO 2744

#### *Aspergillus niger*

WDCM 00144 | A-NRRL 3361; ATCC™ 6275; CBS 131.52; CSIRO 2522; DSM 1957; NBRC 105649; UMIP 2475.98

#### *Aspergillus restrictus*

WDCM 00183 | ATCC™ 42693

*Eurotium amstelodami*

WDCM 00145 | ATCC™ 16018; BCRC 32880; CECT 2586; IMI 17455

*Candida albicans*

WDCM 00054 | ATCC™ 10231; B 49904; BCRC 21538; CBS 6431; CCM 8215; DSM 1386; IFO 1594; IHEM 3731; MUCL 30114; NCPF 3179; NCYC 1363; NIH 3147; UMIP 48.72; VTT C-85161

WDCM 00055 | ATCC™ 2091; B 41838; CBS 2730; CCM 8226; DSM 1665; IFO 1393; IHEM 3740; MUCL 38887; NCPF 3255; NCYC 854; NRRL Y-79; UMIP 1180.79

*Cladosporium cladosporioides*

WDCM 00190 | ATCC™ 11277; NBRC 6348; NBRC 6368;  
Note :This number was previously allocated to a strain of *Escherichia coli* now listed at WDCM 00202.

*Coniophora puteana*

WDCM 00040 | BAM 15; MUCL 11662

WDCM 00041 | MUCL 30714

WDCM 00042 | MUCL 31046

*Eurotium rubrum*

WDCM 00184 | ATCC™ 42690

*Gloeophyllum trabeum*

WDCM 00043 | BAM 109; FPRL 108N; MUCL 11353; MUCL 11663

*Lentinus lepideus*

WDCM 00044 | MUCL 40109

*Mucor racemosus*

WDCM 00181 | ATCC™ 42647

*Oligoporus (Poria) placentus*

WDCM 00045 | FPRL 280; MUCL 20569

WDCM 00046 | MUCL 30789; WFPL 120AR

*Penicillium aurantiogriseum*

WDCM 00056 | IHEM 18001; UMIP 1186.79

***Penicillium citrinum***

WDCM 00189 | ATCC™ 9849; NBRC 6352

Note : This number was previously allocated to a strain of *Clostridium perfringens* now listed at WDCM 00201.

***Penicillium hirsutum***

WDCM 00057 | ATCC™ 16025; CBS 201.57; CECT 2812; IHEM 19610; IMI 19759;  
MUCL 19012; QM 840

***Penicillium pinophilum***

WDCM 00194 | ATCC™ 9644; CBS 170.60; DSM 1960; NBRC 6345;

***Pleurotus ostreatus***

WDCM 00047 | MUCL 31535

WDCM 00048 | MUCL 38041

***Rhizopus stolonifer***

WDCM 00146 | BCRC 32880; IMI 61269

***Saccharomyces cerevisiae***

WDCM 00058 | ATCC™ 9763; B 42428; BCRC 20822; CBS 2978; CCM 8191;  
CCRC 20822; DSM 1333; IHEM 3961; MUCL 30115; NCTC 10716;  
NCYC 87; NRRL Y-567; UMIP 1432.83

WDCM 00059 | DSM 70487; IHEM 17987; MUCL 27817

WDCM 00147 | ATCC™ 7754; BCRC 21727; CBS 1368; NCIMB(QC) 50105; NCYC  
79

***Serpula lacrymans***

WDCM 00049 | MUCL 34572

***Trametes versicolor***

WDCM 00050 | BAM 863-A; BCRC 36525; CTB 863A; MUCL 11665

WDCM 00051 | MUCL 28407

WDCM 00052 | ATCC™ 42530; FCUP 642; MUCL 38412

***Trichophyton mentagrophytes***

WDCM 00191 | NBRC 32409; NBRC 32412;

Note : This number was previously allocated to a strain of *Vibrio cholerae* now listed at WDCM 00203.

***Wallemia sebi***

WDCM 00182 | ATCC™ 42694

*Zygosaccharomyces rouxii*

WDCM 00148 | NCIMB(QC) 50106; NCYC 1522



## Part 2: Strains by WDCM Number

WDCM No.	Identity	Collection
00001	<i>Bacillus cereus</i>	ATCC™ 11778; ATCC™ 9634; BCRC 10446; CCM 869; CIP 64.52; DSM 345; LMG 8221; NCIMB 8012; NCIMB 9231; NCTC 10320
00002	<i>Bacillus coagulans</i>	ATCC™ 7050; BCRC 10606; CCM 2013; CCUG 7417; CECT 12; CIP 66.25; CN 2202; DSM 1; FIRDI 606; IAM 1115; IAM 12463; IFO 12583; JCM 2257; LMG 17450; LMG 17455; LMG 6326; NCFB 1761; NCIMB 9365; NCTC 10334; NRRL NRS-609; OUT 8348; OUT 8403; USCC 2116
00003	<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	ATCC™ 6633; BCRC 10447; CCM 1999; CIP 52.62; DSM 347; IFO 13720; IFO 3134; JCM 2499; LMG 8197; NCIMB 8054; NCIMB 8566; NCTC 10400; NRS 231
00004	<i>Campylobacter coli</i>	ATCC™ 43478; CCM 7227; LMG 21266
00005	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	ATCC™ 33291; CCUG 33057; LMG 18455
00006	<i>Citrobacter freundii</i>	ATCC™ 43864; CCM 7187; CIP 103547; LMG 21265
00007	<i>Clostridium perfringens</i> (haemolytic)	ATCC™ 13124; ATCC™ 19408; BCRC 10913; CCM 5744; CCTM La 2957; CCUG 1795; CECT 376; CIP 103409; CN 1491; CNCTC CI 68/83; DSM 756; FIRDI 913; JCM 1290; LMG 11264; NCIMB 6125; NCTC 6125; NCTC 8237
00008	<i>Clostridium sporogenes</i>	ATCC™ 19404; BCRC 11258; CCM 4409; CIP 79.03; DSM 1664; LMG 10143; NCIMB 532; NCTC 532
00009	<i>Enterococcus faecalis</i>	ATCC™ 19433; BCRC 10066; CCUG 19916; CCM 7000; CECT 481; CIP 103015; DSM 20478; FIRDI 66; LMG 7937; NCFB 581; NCIMB 775; NCTC 775; RIMD 3116001
00010	<i>Enterococcus faecium</i>	ATCC™ 19434; BCRC 10067; CCM 7167; CCRC 10067; CCUG 542; CECT 410; CIP 103014; DSM 20477; GIFU 8355; JCM 5804; LMG 11423; LMG 12692; LMG 8149; NCFB 942; NCIMB 11508; NCTC 7171; NRIC 1145
00011	<i>Enterococcus hirae</i>	ATCC™ 10541; BCRC 11547; CCM 4533; CIP 58.55; DSM 3320; LMG 10274; NCIMB 8192; NCTC 13383; PCI 1341
00012	<i>Escherichia coli</i>	ATCC™ 8739; BCRC 11634; CCM 4517; CIP 53.126; DSM 1576; IFO 3972; IMET 11121; LMG 8063; NCDO 904; NCIMB 8545; NCTC 12923
00013	<i>Escherichia coli</i>	ATCC™ 25922; BCRC 11509; CCM 3954; CIP 76.24; DSM 1103; LMG 8223; NCIMB 12210; NCTC 12241

00014	<i>Escherichia coli</i> serotype O157:H7 (non-toxigenic)	ATCC™ 700728; BDMS T4169; CCM 4787; LMG 21756; NCIMB (QC) 50139; NCTC 12900
00015	<i>Lactobacillus sakei</i> subsp. <i>sakei</i>	ATCC™ 15521; BCRC 14622; CCM 7203; CCRC 14622; CCUG 30501; CECT 906; CIP 103139; DSM 20017; IFO 15893; JCM 1157; LMG 9468; NCFB 2714; NCIMB 13090; NRIC 1071
00016	<i>Lactococcus lactis</i> subsp. <i>lactis</i>	ATCC™ 19435; ATCC™ 9936; BCRC 12312; BU 302; CCM 1877; CCTM 3105; CCUG 7980; CECT 185; CIP 70.56; CNCTC Str N 25/58; DSM 20481; HNCMB 80146; LMG 6890; NCFB 604; NCIMB 6681; NCTC 6681; USCC 1394
00017	<i>Listeria innocua</i>	ATCC™ 33090; BCRC 14843; CCM 4030; CIP 80.11; CLIP 12511; DSM 20649; LMG 11387; NCTC 11288
00018	<i>Listeria ivanovii</i> subsp. <i>ivanovii</i> serovar 5	ATCC™ 19119; BCRC 14844; CCM 5884; CIP 78.42; CLIP 12510; DSM 20750; LMG 11388; NCTC 11846
00019	<i>Listeria monocytogenes</i> serovar 4b	BCRC 15408; DSM 15675; LMG 13305; NCTC 11994
00020	<i>Listeria monocytogenes</i> serovar 1	ATCC™ 19111; CCM 5576; CIP 78.31; DSM 19094; LMG 21263
00021	<i>Listeria monocytogenes</i> serovar 4b	ATCC™ 13932; CCM 7202; CIP 59.53; LMG 21264; NCTC 10527
00022	<i>Pediococcus damnosus</i>	ATCC™ 29358; BCRC 12840; CCM 3453; CCUG 32251; CIP 102264; DSM 20331; JCM 5886; LMG 11484; NCFB 1832; NCIMB 12010
00023	<i>Proteus mirabilis</i>	ATCC™ 29906; BCRC 13991; CCM 7188; CDC PR14; CECT 4168; CIP 103181; DSM 4479; LMG 3257; NCTC 11938
00024	<i>Pseudomonas aeruginosa</i>	AJ 2116; ATCC™ 10145; BCRC 10944; BU 277; CCM 1960; CCM 481; CCTM 2773; CCUG 551; CECT 110; CIP 63.52; CNCTC Ps 153/77; DSM 50071; FIRDI 944; IAM 1514; ICPB 2523; IFO 12689; IFO 3756; IMET 10403; JCM 5962; KM 274; LMG 1242; NCDO 1369; NCIMB 8295; NCPPB 1965; NCTC 10332; NRRL B-771; RH 815; UQM 495; USCC 2030; VKM B588
00025	<i>Pseudomonas aeruginosa</i>	ATCC™ 27853; BCRC 11864; CCM 3955; CCTM 2766; CCTM 2767; CCUG 17619; CCUG 7737; CECT 108; CIP 76.110; CNCTC Ps 133/71; DSM 1117; LMG 18448; LMG 6395; NCIMB 12469; NCTC 12903
00026	<i>Pseudomonas aeruginosa</i>	ATCC™ 9027; BCRC 11633; BUCSAV 728; CCM 1961; CIP 82.118; DSM 1128; IAM 10374; IFO 13275; LMG 8029; NCIMB 8626; NRRL B-800
00027	<i>Pseudomonas aeruginosa</i>	CECT 4080; CIP A22; LMG 10639; NCIMB 13056

00028	<i>Rhodococcus equi</i>	AJ 1402; ATCC™ 25729; ATCC™ 6939; BCRC 12859; CCM 3429; CCUG 892; CECT 555; CIP 54.72; DSM 20307; DSM 43349; IAM 12426; IMET 7467; JCM 1311; LMG 18452; LMG 5358; NCIMB 12828; NCTC 1621; NRRL B-16538
00029	<i>Salmonella</i> Abony	CCM 4518; CCUG 20832; CCUG 21354; CIP 80.39; DSM 4224; LMG 18222; NCTC 6017
00030	<i>Salmonella enterica</i> subsp. <i>enterica</i>	ATCC™ 13076; ATCC™ 25928; BCRC 10744; CCM 7189; CDC K-1891; CIP 82.97; DSM 9898; LMG 10395
00031	<i>Salmonella typhimurium</i> now <i>Salmonella enterica</i> subsp. <i>enterica</i> serotype <i>typhimurium</i>	ATCC™ 14028; BCRC 10747; CCM 7205; CCRC 10747; CDC 6516-60; CIP 104115; DSM 19587; LMG 14933; NCIMB 13284; NCTC 12023
00032	<i>Staphylococcus aureus</i>	ATCC™ 6538; BCRC 12154; CCM 4516; CCTM 2103; CCUG 10778; CCUG 1623; CECT 239; CIP 4.83; CNCTC Mau 29/58; DSM 799; FIRDI 941; HMGB B865; IEM Mau 29/58; IFO 13276; IMET 10761; LMG 8064; NCIMB 9518; NCTC 10788
00033	<i>Staphylococcus aureus</i>	AHU 1142; ATCC™ 6538P; BCRC 10451; BTCC 209P; BU 395; CCM 2022; CCTM 596; CCUG 1828; CECT 240; CIP 53.156; CN 3784; CNCTC Mau 28/58; DSM 346; FIRDI 451; IAM 1011; IAM 12082; IEM Mau 28/58; IFO 12732; IFO 3061; IID 671; IMET 10904; JCM 2151; LMG 8195; NCIMB 8625; NCTC 7447; NRRL B-313; OUT 8232; PCI 1209; PZH 8/54; RIMD 3109007; VNIIA 209P
00034	<i>Staphylococcus aureus</i>	ATCC™ 25923; BCRC 10781; CCM 3953; CCTM 2816; CCUG 17621; CCUG 7738; CECT 435; CIP 76.25; CNCTC Mau 80/73; DSM 1104; JCM 2413; LMG 8224; NCIMB 12702; NCTC 12981
00035	<i>Staphylococcus aureus</i>	ATCC™ 9144; BCRC 10908; CCM 2107; CIP 53.154; DSM 683; LMG 10640; NCIMB 6571; NCTC 6571; NRRL B314
00036	<i>Staphylococcus epidermidis</i>	ATCC™ 12228; BCRC 11030; CCM 4418; CIP 68.21; DSM 1798; IFO 12993; LMG 10273; NCIMB 8853; NCTC 13360
00037	<i>Vibrio parahaemolyticus</i>	ATCC™ 17802; BCRC 10806; CCTM 2011; CCUG 14474; CCUG 15657; CDC 9062-79; CECT 511; CIP 75.02; DSM 10027; FIRDI 806; LMG 2850; NCMB 1902; NCTC 10903; RIMD 2210001; USCC 2240
00038	<i>Yersinia enterocolitica</i> biotype 1 serotype O:8	ATCC™ 9610; BCRC 13999; CCM 7204; CCUG 11291; CCUG 12369; CIP 80.27; DSM 4780; LMG 7899; NCTC 12982
00039	<i>Yersinia enterocolitica</i> biotype 4 serotype O:3	CCUG 4586; CCUG 8233; CIP 81.41; DSM 9676; IP 134; LMG 15558; NCIMB(QC) 50087
00040	<i>Coniophora puteana</i>	BAM 15; MUCL 11662

00041	<i>Coniophora puteana</i>	MUCL 30714
00042	<i>Coniophora puteana</i>	MUCL 31046
00043	<i>Gloeophyllum trabeum</i>	BAM 109; FPRL 108N; MUCL 11353; MUCL 11663
00044	<i>Lentinus lepideus</i>	MUCL 40109
00045	<i>Oligoporus (Poria) placentus</i>	FPRL 280; MUCL 20569
00046	<i>Oligoporus (Poria) placentus</i>	MUCL 30789; WFPL 120AR
00047	<i>Pleurotus ostreatus</i>	MUCL 31535
00048	<i>Pleurotus ostreatus</i>	MUCL 38041
00049	<i>Serpula lacrymans</i>	MUCL 34572
00050	<i>Trametes versicolor</i>	BAM 863-A; BCRC 36525; CTB 863A; MUCL 11665
00051	<i>Trametes versicolor</i>	MUCL 28407
00052	<i>Trametes versicolor</i>	ATCC™ 42530; FCUP 642; MUCL 38412
00053	<i>Aspergillus brasiliensis</i>	ATCC™ 16404; B 42936; BCRC 30506; CCM 8222; DSM 1988; IFO 9455; IHEM 3766; IMI 149007; MUCL 29039; NCPF 2275; UMIP 1431.83
00054	<i>Candida albicans</i>	ATCC™ 10231; B 49904; BCRC 21538; CBS 6431; CCM 8215; DSM 1386; IFO 1594; IHEM 3731; MUCL 30114; NCPF 3179; NCYC 1363; NIH 3147; UMIP 48.72; VTT C-85161
00055	<i>Candida albicans</i>	ATCC™ 2091; B 41838; CBS 2730; CCM 8226; DSM 1665; IFO 1393; IHEM 3740; MUCL 38887; NCPF 3255; NCYC 854; NRRL Y-79; UMIP 1180.79
00056	<i>Penicillium aurantiogriseum</i>	IHEM 18001; UMIP 1186.79
00057	<i>Penicillium hirsutum</i>	ATCC™ 16025; CBS 201.57; CECT 2812; IHEM 19610; IMI 19759; MUCL 19012; QM 840
00058	<i>Saccharomyces cerevisiae</i>	ATCC™ 9763; B 42428; BCRC 20822; CBS 2978; CCM 8191; CCRC 20822; DSM 1333; IHEM 3961; MUCL 30115; NCTC 10716; NCYC 87; NRRL Y-567; UMIP 1432.83
00059	<i>Saccharomyces cerevisiae</i>	DSM 70487; IHEM 17987; MUCL 27817
00060	<i>Acinetobacter</i> sp.	NCIMB 10764; NCIMB(QC) 50011
00061	<i>Aerococcus viridans</i>	ATCC™ 11563; BCRC 14290; CCM 1914; CCUG 4311; CECT 978; CIP 54.145; DSM 20340; HNCMB 86001; IFO 12219; LMG 17931; NCIMB 11775; NCIMB(QC) 50012; NCTC 8251
00062	<i>Aeromonas caviae</i>	ATCC™ 15468; BCRC 16001; CCM 4491;

		CCUG 25939; CIP 76.16; DSM 7323; LMG 3775; NCIMB 13016
00063	<i>Aeromonas hydrophila</i>	ATCC™ 7966; BCRC 13018; CCM 7232; CCUG 14551; CIP 76.14; DSM 30187; JCM 1027; LMG 2844; NCIMB(QC) 50013; NCTC 8049
00064	<i>Aeromonas sobria</i>	ATCC™ 35993; CCUG 14550; LMG 12670; NCTC 11215
00065	<i>Arcobacter butzleri</i>	ATCC™ 49616; CCUG 30485; CIP 103537; DSM 8739; LMG 10828; NCTC 12481
00066	<i>Arcobacter cryaerophilus</i>	ATCC™ 43158; CCM 3933; CCUG 17801; CIP 104014; DSM 7289; LMG 24291; NCTC 11885
00067	<i>Arcobacter skirrowii</i>	ATCC™ 51132; CCUG 10374; CIP 103538; DSM 7302; LMG 6621; NCTC 12713
00068	<i>Bacillus licheniformis</i>	ATCC™ 14580; BCRC 11702; CCM 2145; CCUG 7422; CECT 20; CIP 52.71; DSM 13; IFO 12200; JCM 2505; LMG 12363; NCIMB 9375; NCIMB(QC) 50016; NCTC 10341
00069	<i>Bacillus stearothermophilus</i>	ATCC™ 10149; BCRC 10610; CCM 5965; CIP 105453; DSM 6790; JCM 11297; LMG 17962
00070	<i>Bacillus subtilis</i>	LMG 17728; NCIMB 13061; NCIMB(QC) 50018; NCTC 5398
00071	<i>Brochothrix thermosphacta</i>	ATCC™ 11509; BCRC 12300; CCM 4769; CCUG 35132; CECT 847; CIP 103251; DSM 20171; LMG 17208; NCIMB 10018; NCIMB(QC) 50019; NCTC 10822
00072	<i>Campylobacter coli</i>	ATCC™ 33559; CCUG 11283; CIP 70.80; DSM 4689; JCM 2529; LMG 6440; NCIMB(QC) 50092; NCTC 11366
00073	<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	ATCC™ 700819; CCUG 6824; CIP 107370; LMG 8842; NCIMB(QC) 50091; NCTC 11168
00074	<i>Campylobacter upsaliensis</i>	ATCC™ 43953; CCUG 24803; LMG 8852; NCTC 11540
00075	<i>Carnobacterium divergens</i>	ATCC™ 35677; BCRC 14042; CCM 4117; CCUG 30094; CECT 4016; CIP 101029; DSM 20623; JCM 5816; LMG 9199; NCIMB 11952; NCIMB(QC) 50021
00076	<i>Carnobacterium piscicola</i>	CIP 110052; DSM 20624; LMG 11391; NCIMB 13093; NCIMB(QC) 50020
00077	<i>Citrobacter freundii</i>	NCIMB 8645; NCIMB(QC) 50025; NCTC 6272
00078	<i>Citrobacter freundii</i>	ATCC™ 6750; CIP 110053; DSM 30040; NCIMB 8173
00079	<i>Clostridium bifermentans</i>	CECT 550; CIP 110068; NCIMB 506; NCIMB(QC) 50026; NCTC 506
00080	<i>Clostridium perfringens</i> (non-haemolytic)	ATCC™ 12916; CCM 7176; NCIMB 13079; NCTC 8238

00081	<i>Desulfotomaculum nigrificans</i>	ATCC™ 19858; BCRC 14424; DSM 574; IFO 13698; NCIMB 8395
00082	<i>Enterobacter cloacae</i>	ATCC™ 23355; CCUG 33777; CECT 5075; CIP 103550; NCTC 13380
00083	<i>Enterobacter cloacae</i>	ATCC™ 13047; BCRC 10401; CCUG 6323; CIP 60.85; DSM 30054; IFO 13535; JCM 1232; LMG 2783; NCIMB 10101; NCIMB(QC) 50122; NCTC 10005
00084	<i>Enterococcus faecalis</i>	CECT 4176; NCIMB 8260; NCIMB(QC) 50030; NCTC 8213
00085	<i>Enterococcus faecalis</i>	ATCC™ 51299; CCM 4647; CIP 104676; DSM 12956; LMG 16216; NCTC 13379
00086	Vacant	Vacant
00087	<i>Enterococcus faecalis</i>	ATCC™ 29212; BCRC 10789; CCM 4224; CIP 103214; DSM 2570; JCM 2875; LMG 8222; NCIMB(QC) 50112; NCTC 12697
00088	<i>Enterococcus faecium</i>	CECT 4102; CIP 110050; DSM 2918; LMG 11397; NCIMB 12672; NCIMB(QC) 50032
00089	<i>Enterococcus hirae</i>	ATCC™ 8043; BCRC 11054; CCM 2423; CCUG 1332; CECT 279; CIP 53.48; DSM 20160; LMG 6399; NCIMB 8123; NCIMB(QC) 50031; NCTC 6459
00090	<i>Escherichia coli</i>	ATCC™ 11775; BCRC 10675; CCM 5172; CCUG 24; CECT 515; CIP 54.8; DSM 30083; LMG 2092; NCIMB 11943; NCIMB(QC) 50034; NCTC 9001
00091	<i>Escherichia coli</i>	NCIMB 13059; NCIMB(QC) 50035; NCTC 10090
00092	Vacant	Vacant
00093	<i>Escherichia coli</i>	CIP 105180; NCTC 12079
00094	<i>Escherichia coli</i>	CIP 105181; NCTC 12080
00095	<i>Hafnia alvei</i>	ATCC™ 13337; CCUG 15720; CECT 158; CIP 57.31; DSM 30163; JCM 1666; LMG 10392; NCIMB 11999; NCIMB(QC) 50037; NCTC 8105
00096	<i>Klebsiella oxytoca</i>	CIP 110043; NCIMB 12819; NCIMB(QC) 50038
00097	<i>Klebsiella pneumoniae</i>	ATCC™ 13883; BCRC 10692; CCM 7798; CCUG 225; CIP 82.91; DSM 30104; JCM 1662; LMG 2095; NCIMB 13281; NCIMB(QC) 50108; NCTC 9633
00098	<i>Lactobacillus acidophilus</i>	ATCC™ 4356; BCRC 10695; CCM 4833; CIP 76.13; DSM 20079; LMG 9433; NCIMB 8690; NCIMB(QC) 50101; NCTC 12980
00099	<i>Lactobacillus brevis</i>	ATCC™ 14869; BCRC 12187; CCM 3805; CCUG 30670; CIP 102806; DSM 20054; JCM 1059; LMG 6906; NCIMB 11973; NCIMB(QC)

50043

00100	<i>Lactobacillus casei</i>	ATCC™ 393; BCRC 10697; CCM 7088; CCUG 21451; CIP 103137; DSM 20011; JCM 1134; LMG 6904; NCIMB 11970
00101	<i>Lactobacillus rhamnosus</i>	ATCC™ 7469; BCRC 10940; BUCSAV 227; CCM 1825; CIP A157; DSM 20021; IAM 1118; IFO 3425; JCM 1136; LMG 6400; NCIMB 8010; NCIMB(QC) 50045
00102	<i>Lactobacillus delbrueckii</i> subsp. <i>bulgaricus</i>	ATCC™ 11842; BCRC 10696; CCM 7190; CIP 101027; DSM 20081; LMG 6901; NCIMB 11778; NCIMB(QC) 50050
00103	<i>Lactobacillus gasseri</i>	ATCC™ 19992; BCRC 17615; CCUG 39972; CIP 103699; DSM 20077; LMG 13047; NCIMB 13081; NCIMB(QC) 50040
00104	<i>Lactobacillus plantarum</i>	ATCC™ 14917; BCRC 10069; CCM 7039; CCUG 30503; CECT 748; CIP 103151; DSM 20174; IAM 12477; JCM 1149; LMG 6907; NCIMB 11974; NCIMB(QC) 50054
00105	<i>Lactobacillus viridescens</i>	ATCC™ 12706; BCRC 11650; CCM 56; CCUG 30502; CIP 102810; DSM 20410; JCM 1174; LMG 3507; NCIMB 8965; NCIMB(QC) 50057
00106	<i>Legionella anisa</i>	ATCC™ 35292; BCRC 17043; CCUG 29665; CIP 103870; DSM 17627; JCM 7573; NCTC 11974
00107	<i>Legionella pneumophila</i> serogroup 1	ATCC™ 33152; BCRC 17854; CCM 7799; CCUG 9568; CIP 103854; DSM 7513; JCM 7571; NCTC 11192
00108	<i>Leuconostoc mesenteroides</i> subsp. <i>mesenteroides</i>	ATCC™ 9135; BCRC 14012; BUCSAV 312; CCM 1851; CIP 110051; DSM 20241; LMG 8159; NCIMB 6992; NCIMB(QC) 50060
00109	<i>Listeria monocytogenes</i> serovar 1/2a	ATCC™ 35152; BCRC 15342; CCM 5576; CCUG 15527; CIP 104794; LMG 13304; NCTC 7973
00110	<i>Listeria monocytogenes</i> serovar 4a	ATCC™ 19114; BCRC 14848; CECT 934; CIP 60.88; LMG 16783; NCTC 5214
00111	<i>Micrococcus luteus</i>	ATCC™ 4698; BCRC 11034; CCM 169; CCUG 5858; CECT 51; CIP A270; DSM 20030; IAM 1056; IFO 3333; JCM 1464; LMG 4050; NCIMB 9278; NCIMB(QC) 50063; NCTC 2665
00112	<i>Morganella morganii</i> subsp. <i>morganii</i>	ATCC™ 25830; BCRC 10706; CCUG 6328; CECT 173; CIP A231; DSM 30164; IFO 3848; LMG 7874; NCIMB 235; NCIMB(QC) 50064; NCTC 235
00113	<i>Photobacterium leiognathi</i>	ATCC™ 25521; BCRC 13806; CCUG 16229; CIP 66.5; DSM 21260; LMG 4228; NCIMB 2193; NCIMB(QC) 50103
00114	<i>Pseudomonas aeruginosa</i>	ATCC™ 25668; CCM 3989; CECT 118; CIP 103837; NCIMB 13063; NCIMB(QC) 50067; NCTC 10662

00115	<i>Pseudomonas fluorescens</i>	ATCC™ 13525; BCRC 11028; CCM 2115; CCUG 1253; CECT 378; CIP 69.13; DSM 50090; IAM 12022; IFO 14160; JCM 5963; LMG 1794; NCIMB 9046; NCIMB(QC) 50068; NCTC 10038
00116	<i>Pseudomonas fragi</i>	ATCC™ 4973; BCRC 11019; CCM 1974; CCUG 556; CECT 446; CIP 55.4; DSM 3456; IFO 3458; LMG 2191; NCIMB 8542; NCIMB(QC) 50069; NCTC 10689
00117	<i>Pseudomonas putida</i>	ATCC™ 12633; BCRC 10459; CCM 7156; CCUG 12690; CECT 324; CIP 52.191; DSM 291; DSM 50906; IFO 14164; LMG 2257; NCIMB 9494; NCIMB(QC) 50070; NCTC 10936
00118	<i>Salmonella</i> Dublin	CECT 4152; NCIMB(QC) 50072; NCTC 9676
00119	<i>Salmonella enterica</i> subsp. <i>enterica</i>	CECT 4155; NCIMB(QC) 50073; NCTC 5188
00120	<i>Salmonella</i> Saintpaul	CECT 4153; NCIMB(QC) 50075; NCTC 6022
00121	<i>Salmonella typhimurium</i> now <i>Salmonella enterica</i> subsp. <i>enterica</i> serotype <i>typhimurium</i>	ATCC™ 13311; BCRC 12947; CCM 7933; CCUG 11732; CECT 443; CIP 58.58; DSM 5569; LMG 10396; NCIMB(QC) 50100; NCTC 74
00122	<i>Salmonella typhimurium</i> now <i>Salmonella enterica</i> subsp. <i>enterica</i> serotype <i>typhimurium</i>	CECT 4156; NCTC 12190
00123	<i>Salmonella typhimurium</i> now <i>Salmonella enterica</i> subsp. <i>enterica</i> serotype <i>typhimurium</i>	ATCC™ 25241
00124	<i>Salmonella</i> Virchow	CECT 4154; CIP 110069; NCIMB(QC) 50077; NCTC 5742
00125	<i>Shigella flexneri</i>	ATCC™ 29903; BCRC 13984; CIP 82.48; DSM 4782; NCIMB(QC) 50079
00126	<i>Shigella flexneri</i>	ATCC™ 12022; BCRC 10772; CIP 104222; LMG 10472; NCIMB(QC) 50140
00127	<i>Shigella sonnei</i>	ATCC™ 29930; BCRC 15966; CECT 4887; CIP 82.49; DSM 5570; NCTC 12984
00128	Vacant	Vacant
00129	Vacant	Vacant
00130	<i>Staphylococcus aureus</i>	CIP 110044; NCIMB 12820; NCIMB(QC) 50081
00131	<i>Staphylococcus aureus</i>	ATCC™ 29213; BCRC 11863; CCM 4223; CIP 103429; DSM 2569; JCM 2874; LMG 10147; NCTC 12973
00132	<i>Staphylococcus epidermidis</i>	ATCC™ 14990; CCM 2124; CIP 81.55; DSM 20044; NCIMB 12721; NCIMB(QC) 50082;



		NCTC 11047
00133	<i>Streptococcus bovis</i>	ATCC™ 33317; BCRC 14729; CCUG 17828; CECT 213; CIP 102302; DSM 20480; LMG 8518; NCTC 8177
00134	<i>Streptococcus thermophilus</i>	ATCC™ 19258; BCRC 13869; CECT 986; CIP 102303; DSM 20617; LMG 6896; NCIMB 8510; NCIMB(QC) 50083
00135	<i>Thermoanaerobacterium thermosaccharolyticum</i>	ATCC™ 7956; DSM 571; NCIMB 9385
00136	<i>Vibrio cholerae</i> non 0:1	NCTC 11348
00137	<i>Vibrio fluvialis</i>	ATCC™ 33809; BCRC 12830; CCM 3689; CCUG 13622; CIP 103355; DSM 19283; LMG 7894; NCIMB 2249; NCIMB(QC) 50084; NCTC 11327
00138	<i>Vibrio parahaemolyticus</i>	NCTC 11344
00139	<i>Vibrio vulnificus</i>	ATCC™ 27562; BCRC 12905; CCUG 13448; CIP 75.4; DSM 10143; LMG 13545; NCIMB 2046; NCIMB(QC) 50104
00140	Vacant	Vacant
00141	<i>Aspergillus flavus</i>	BCRC 30144; DSM 1959; IMI 91856ii
00142	<i>Aspergillus flavus</i>	A-NRRL 3251; BCRC 30300; CCM 8363; CSIRO 3084
00143	<i>Aspergillus parasiticus</i>	A-NRRL 2999; BCRC 30164; CSIRO 2744
00144	<i>Aspergillus niger</i>	A-NRRL 3361; ATCC™ 6275; CBS 131.52; CSIRO 2522; DSM 1957; NBRC 105649; UMIP 2475.98
00145	<i>Eurotium amstelodami</i>	ATCC™ 16018; CECT 2586; IMI 17455
00146	<i>Rhizopus stolonifer</i>	BCRC 32880; IMI 61269
00147	<i>Saccharomyces cerevisiae</i>	ATCC™ 7754; BCRC 21727; CBS 1368; NCIMB(QC) 50105; NCYC 79
00148	<i>Zygosaccharomyces rouxii</i>	NCIMB(QC) 50106; NCYC 1522
00149	Vacant	Vacant
00150	Vacant	Vacant
00151	<i>Bacillus cereus</i>	ATCC™ 7004; BCRC 11837; LMG 6910; NCIMB 8079; NRS 721
00152	<i>Enterococcus faecalis</i>	see WDCM 00085
00153	<i>Enterococcus faecalis</i>	CIP 110054; DSM 13591
00154	<i>Enterococcus faecium</i>	CIP 110055; DSM 13590
00155	<i>Escherichia coli</i>	see WDCM 00090
00156	<i>Campylobacter jejuni</i>	ATCC™ 29428; CCM 7212; CCUG 39973; CIP

	<i>subsp. jejuni</i>	103778; NCTC 11322
00157	Vacant	Vacant
00158	<i>Pediococcus pentosaceus</i>	ATCC™ 33316; CCM 7796; CECT 4695; CIP 102260; DSM 20336; LMG 11488; NCIMB 12012
00159	<i>Staphylococcus saprophyticus</i> subsp. <i>saprophyticus</i>	ATCC™ 15305; CCM 883; CIP 76.125; DSM 20229
00160	<i>Yersinia enterocolitica</i> biotype 1 serotype 0:9	ATCC™ 23715; NCTC 10598
00161	Vacant	Vacant
00162	Vacant	Vacant
00163	Vacant	Vacant
00164	Vacant	Vacant
00165	Vacant	Vacant
00166	Vacant	Vacant
00167	Vacant	Vacant
00168	Vacant	Vacant
00169	Vacant	Vacant
00170	<i>Pantoea agglomerans</i>	ATCC™ 27155; CCUG 539; CECT 850; CIP 57.51; DSM 3493; IAM 12659; JCM 1236; NCTC 9381
00171	<i>Campylobacter coli</i>	ATCC™ 43133
00172	<i>Campylobacter jejuni</i> ssp. <i>jejuni</i>	ATCC™ 35918
00173	<i>Campylobacter jejuni</i> ssp. <i>jejuni</i>	ATCC™ 35919
00174	<i>Clostridium perfringens</i>	ATCC™ 10543
00175	<i>Enterobacter aerogenes</i>	ATCC™ 13048; CIP 60.86
00176	<i>Enterococcus faecalis</i>	CCM 2541; CIP 106877
00177	<i>Enterococcus faecium</i>	ATCC™ 6057; CIP 106742
00178	<i>Enterococcus faecium</i>	CCM 7800; CIP 106876; NCTC 13169
00179	<i>Escherichia coli</i>	CCM 7801; CIP 106878; NCTC 13167
00180	<i>Legionella pneumophila</i>	ATCC™ 33156; CIP 103858
00181	<i>Mucor racemosus</i>	ATCC™ 42647
00182	<i>Wallemia sebi</i>	ATCC™ 42694
00183	<i>Aspergillus restrictus</i>	ATCC™ 42693

00184	<i>Eurotium rubrum</i>	ATCC™ 42690
00185	<i>Vibrio parahaemolyticus</i>	NCTC 10885
00186	<i>Vibrio furnissi</i>	NCTC 11218
00187	<i>Vibrio vulnificus</i>	ATCC™ 29307
00188	<i>Escherichia coli</i>	ATCC™ 43895; BCRC 14824; CCRC 14824; CECT 4783; CIP 106327
00189	<i>Penicillium citrinum</i>	ATCC™ 9849; NBRC 6352
00190	<i>Cladosporium cladosporioides</i>	ATCC™ 11277; NBRC 6348; NBRC 6368
00191	<i>Trichophyton mentagrophytes</i>	NBRC 32409; NBRC 32412
00192	<i>Klebsiella pneumoniae</i>	ATCC™ 4352; CIP 104216; DSM 789; NBRC 13277; NCIMB 10341
00193	<i>Staphylococcus aureus</i>	ATCC™ 6538; ATCC™ 6538P; CIP 4.83; DSM 799; NBRC 12732; NBRC 13276; NCIMB 9518
00194	<i>Penicillium pinophilum</i>	ATCC™ 9644; CBS 170.60; DSM 1960; NBRC 6345
00195	<i>Staphylococcus aureus</i>	ATCC™ 6538P; CGMCC 1.89; DSM 346; NBRC 12732
00196	<i>Escherichia coli</i>	ATCC™ 8739; DSM 1576; NBRC 3972
00197	Vacant	Vacant
00198	Vacant	Vacant
00199	Vacant	Vacant
00200	<i>Enterobacter cloacae</i>	NCTC 13168
00201	<i>Clostridium perfringens</i>	NCTC 13170
00202	<i>Escherichia coli</i>	NCTC 13216
00203	<i>Vibrio Cholerae non-01 / non-0139</i>	ATCC™ 14733; NCTC 8042
00204	<i>Campylobacter lari</i>	ATCC 35221; CCUG 10773; DSM 11375; LMG 7605; NCTC 11352
00205	<i>Legionella pneumophila serogroup 1</i>	NCTC 12821
00206	<i>Klebsiella pneumoniae</i>	ATCC™ 31488
00207	<i>Pseudomonas aeruginosa</i>	NCTC 12951

### Part 3: List of Collections and contacts

Acronym	Collection and Address	Phone, Fax, Phoneex	Email / Website
AHU	AHU Culture Collection, Graduate School of Agriculture, Hokkaido University, Kita-9, Nishi-9, Kita-Ku, Sapporo, Hokkaido, 060-8589, Japan.	Phone: +81 11-706-2493 Fax: +81 11-706-4961	<a href="http://www.agr.hokudai.ac.jp/oukin/index.html">http://www.agr.hokudai.ac.jp/oukin/index.html</a>
ATCC™®	American Type Culture Collection, 10801 University Blvd., Manassas, VA 20110-2209, USA.	Phone: 800-638-6597 Fax: 703-365-2750	<a href="http://www.atcc.org">http://www.atcc.org</a> Email: <a href="mailto:sales@ATCC.org">sales@ATCC.org</a>
BCRC	Bioresource Collection and Research Center, Food Industry Research and Development Institute, PO Box 246, Hsinchu, Taiwan 30099, Taiwan.	Phone: (886) 3-5223191-580. Fax: (886) 3-5214016.	<a href="http://www.bcrc.firdi.org">http://www.bcrc.firdi.org</a> Email: <a href="mailto:gfy@firdi.org.tw">gfy@firdi.org.tw</a>
BTCC	Bulgarian Type Culture Collection, Institute for State Control of Drugs, Vladimir Zaimov No. 26, Sofia, Bulgaria.		
CABI	CABI Europe UK, formerly IMI - International Mycological Institute (Incorporating the National Collection of Fungus Cultures (NCFC), Bakeham Lane, Egham, Surrey, TW20 9TY, UK.	Phone: +44-1491 829000 Fax: +44-1491 829100	<a href="http://www.cabi.org">http://www.cabi.org</a> Email: <a href="mailto:m.ryan@cabi.org">m.ryan@cabi.org</a>
CBS	Centraalbureau voor Schimmelcultures, Fungal Biodiversity Centre, Uppsalaan 8, PO Box 85167, 3508 AD Utrecht, The Netherlands.	Phone: +31-30 2122600 Fax: +31-30 2512097	<a href="http://www.cbs.knaw.nl">http://www.cbs.knaw.nl</a> Email: <a href="mailto:sales@cbs.knaw.nl">sales@cbs.knaw.nl</a> <a href="mailto:g.verkleij@cbs.knaw.nl">g.verkleij@cbs.knaw.nl</a>
CCM	Czech Collection of Microorganisms, Masaryk University, Tvrdeho 14, Brno CZ-602 00, Czech Republic.	Phone: (420) 5-49491430 Fax: (420) 5-43247339	Email: <a href="mailto:ccm@sci.muni.cz">ccm@sci.muni.cz</a>
CCUG	Culture Collection University of Goteborg, Department of Clinical Bacteriology, University of Goteborg, Guldhedsgatan 10, S-41346, Goteborg, Sweden.	Phone: +46-31-604625 Fax: +46-31-825484 Phoneex : 9312111263 (SA G)	Email: <a href="mailto:order@ccug.se">order@ccug.se</a>

CCTM	Centre de Collection de Type Microbien, Institut Universitaire de Microbiologie - CHUV, Rue du Bugnon 44, CH-1011, Lausanne, Switzerland.	Phone: +41-21-3142339 Fax: +41-21-3143181 Phoneex: 25012	
CECT	Coleccion Espanola de Cultivos Tipo, Facultad de Ciencias Biologicas, Departamento de Microbiologia, Universidad de Valencia, C/Dr. Moliner 50, E-46100, Burjassot, Spain.	Phone: +34-6-3864612 Fax: +34-6-3864372	<a href="http://www.cect.org/english/">http://www.cect.org/english/</a> Email: <a href="mailto:info@cect.org">info@cect.org</a>
CIP	Institut Pasteur, Collection de l'Institut Pasteur, 25 rue du Docteur Roux, F-75724 Paris Cedex 15, France.	Phone : +33-1-45688775 Fax : +33-1-40613007	<a href="http://www.crbip.pasteur.fr">http://www.crbip.pasteur.fr</a> Email <a href="mailto:bizet@pasteur.fr">bizet@pasteur.fr</a>
CNCTC	Czechoslovak National Collection of Type Cultures, National Institute of Public Health, Srobarova 48, CS-10042, Prague 10, Czech Republic.	Phone: +42-2-731241-8/67310578-583, Fax: +42-2-736580/746024, Phoneex: 122 662	
DSM	See DSMZ		
DSMZ	Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH, Inhoffenstraße 7 B, D-38124 Braunschweig, Germany.	Phone: +49-531-2616319 (+49-531-2616335) Fax: +49-531-2616418	<a href="http://www.dsmz.de">http://www.dsmz.de</a> Email: <a href="mailto:sales@dsmz.de">sales@dsmz.de</a>
FIRDI	See BCRC		
FPRL	See CABI		
GIFU	(GTC-GIFU) Gifu Type Culture Collection (GTC), Gifu University Culture Collection (GIFU), Department of Microbiology, Gifu University School of Medicine, 40 Tsukasa-Machi, Gifu 500-8705, Japan.	Phone: +81 58-2672240. Fax: +81 58-2670156	Email: <a href="mailto:tezaki@gifu-u.ac.jp">tezaki@gifu-u.ac.jp</a>
HNCMB	Collection of Medical Bacteria, National Institute of Hygiene, Gyalí ut 2-6, H-1097, Budapest, Hungary.	Hungarian National Phone: +36-1-142250, Phoneex 225349	

IAM	See JCM		
IFO	Institute for Fermentation, Osaka 532, NITE Biological Resource Center, National Institute of Technology and Evaluation (NITE), 2-5-8 Kamatari, Kisarazu, Chiba 292-0812, Japan.	Phone: +81-438-52-2381 Phone: +81-438-20-5763 Fax: +81-438-52-2329	
IHEM	BCCM™/IHEM Scientific Institute of Public Health, Mycology Section, Rue Juliette Wytsman, 14, B-1050 Brussels, Belgium.	Phone: +32-2-6425518 Fax: +32-2-6425519	<a href="http://bccm.belspo.be/about/ihem.php">http://bccm.belspo.be/about/ihem.php</a> Email: <a href="mailto:bccm.ihem@iph.fgov.be">bccm.ihem@iph.fgov.be</a>
IID	Laboratory Culture Collection, Institute of Medical Science, University of Tokyo, 4-6-1 Shirokanedai, Minato-ku, Tokyo, 108-8639, Japan.	Phone: +81 3-5449-5391 Fax: +81 3-5449-5254	<a href="http://www.ims.u-tokyo.ac.jp/imsut/jp/">http://www.ims.u-tokyo.ac.jp/imsut/jp/</a>
IP	See CIP		
IMI	See CABI		
JCM	Japan Collection of Microorganisms, RIKEN BioResource Center, 2-1 Hirosawa, Wako-shi, Saitama 351-0198, Japan.	Phone: +81-48-467-9560 Fax: +81-48-462-4860	Email: <a href="mailto:ito@jcm.riken.jp">ito@jcm.riken.jp</a>
LMG	BCCM™/LMG, Laboratorium voor Microbiologie, Universiteit Gent, Faculteit der Wetenschappen, K.L. Ledeganckstraat, 35, B-9000 Gent, Belgium.	Phone: +32-9-2645108 Fax: +32-9-2645346	<a href="http://bccm.belspo.be/about/lmg.php">http://bccm.belspo.be/about/lmg.php</a> Email: <a href="mailto:bccm.lmg@ugent.be">bccm.lmg@ugent.be</a>
MUCL	BCCM™/MUCL, Mycoteque de l'Universite Catholique de Louvain, Place Croix du Sud 3, Bte 6, B-1348 Louvain-La-Neuve, Belgium.	Phone: +32-10-473742 Fax: +32-10-451501	<a href="http://bccm.belspo.be/about/mucl.php">http://bccm.belspo.be/about/mucl.php</a> Email: <a href="mailto:bccm.mucl@mbia.ucl.ac.be">bccm.mucl@mbia.ucl.ac.be</a>
NCCB	NCCB, Centraalbureau voor Schimmelcultures (CBS), CBS Fungal Biodiversity Centre, Uppsalaan 8, PO Box 85167, 3508 AD Utrecht, The Netherlands.	Phone: +31-30 2122600 Fax: +31-30 2512097	<a href="http://www.cbs.knaw.nl">http://www.cbs.knaw.nl</a> Email: <a href="mailto:sales@cbs.knaw.nl">sales@cbs.knaw.nl</a> <a href="mailto:m.figge@cbs.knaw.nl">m.figge@cbs.knaw.nl</a>

NCDO	See NCIMB		
NCFB	See NCIMB		
NCIB	See NCIMB		
NCIMB	National Collection of Industrial, Food and Marine Bacteria Ltd., Ferguson Building, Craibstone Estate, Bucksburn, Aberdeen AB21 9YA, UK.	Phone: +44-1224-273332 Fax: +44-1224-487658	<a href="http://www.ukncc.co.uk">http://www.ukncc.co.uk</a> Email: <a href="mailto:ncimb[at]abdn.ac.uk">ncimb[at]abdn.ac.uk</a>
NCPPB	National Collection of Plant Pathogenic Bacteria, Central Science Laboratory, Sand Hutton, York YO41 1LZ, UK.	Phone: +44-1904-462000 Fax: +44-1904-462111	Email: <a href="mailto:ncppb[at]csl.gov.uk">ncppb[at]csl.gov.uk</a>
NCTC	National Collection of Type Cultures, Central Public Health Laboratory, HPA, 61 Colindale Avenue, London NW9 5HT, UK.	Phone: +44-20-8200-4400 Fax: +44-20-8205-74831	Email: <a href="mailto:bholmes[at]hpa.org.uk">bholmes[at]hpa.org.uk</a>
NCYC	National Collection of Yeast Cultures, Food Research Institute, Colney Lane, Norwich NR4 7UA, UK.	Phone: +44-11603- 456122/255000 Fax: +44-603-458414	Email: <a href="mailto:ian.roberts[at]bbsrc.ac.uk">ian.roberts[at]bbsrc.ac.uk</a> or <a href="mailto:chris.bond[at]bbsrc.ac.uk">chris.bond[at]bbsrc.ac.uk</a>
NRIC	Nodai Research Institute Culture Collection, Tokyo University of Agriculture, 1-1 Sakuragaoka, Setagaya-ku, Tokyo, 156-8502, Japan.	Phone: +81 3-5477-2549 Fax: +81 3-5477-2549	Email: <a href="mailto:sokada[at]nodai.ac.jp">sokada[at]nodai.ac.jp</a>
NRRL	Northern Utilization Research Branch, USDA, Peoria, Illinois 61604, USA. (formerly Northern Regional Research Laboratory).	Phone: +30 9 681 6397	Email : <a href="mailto:cletus.kurtzman[at]ars.usda.gov">cletus.kurtzman[at]ars.usda.gov</a>
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QM	US Army Natick Laboratories, Natick, Massachusetts 01760, USA (formerly Quartermaster Research & Engineering Center).		
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UMIP	Institut Pasteur, Fungi Culture Collection, 28 rue du Docteur Roux, F-75724 Paris Cedex 15, France.	Phone : +33-1-45688226 Fax : +33-1-45688587	Email: <a href="mailto:papierok@pasteur.fr">papierok@pasteur.fr</a>
VKM	All-Russian Collection of Microorganisms, Institute of Biochemistry and Physiology of Microorganisms, Russian Academy of Science, Poustchino, Moscow Region, pr. Nauki, 5, 142292, Russia.	Phone: +7-095-9257448 Fax: +7-095-9233602	Email: <a href="mailto:klv@au.ru">klv@au.ru</a>
VKM	(Fungal Collection) All-Russian Collection, Institute of Biochemistry and Physiology of Microorganisms, Bakhrushina str., 8, Moscow, 113184, Russia.	Phone : 7(095)951-30-87 Fax : 7(095)953-86-05	Email : <a href="mailto:smo@au.ru">smo@au.ru</a> ,
VTT	Biotechnology and Food Research, PO Box 1501, FIN-02044 VTT, Finland.	Phone: +358-0-4565133 Fax: +358-0-4552028	Email: <a href="mailto:erna.stogards@vtt.fi">erna.stogards@vtt.fi</a>
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