



CATALOGUE OF TEST AND CONTROL STRAINS

**SELECTED AND CHECKED
FOR THEIR PERFORMANCE
IN STANDARDS AND
STANDARDISED
MICROBIOLOGICAL
METHODS**

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Foreword

The Belgian Co-ordinated Collections of Micro-organisms (BCCM®) offer since decades a large choice of cultures of bacteria, fungi and yeasts strains for a wide range of purposes.

From 2000 to 2003, the BCCM® Collections have been involved in a pilot study dealing with test and control strains. The purpose of this study was to meet as much as possible the needs of laboratories and companies concerning the quality, the stability and the user friendliness of the form of supply of these strains.

As a result of this study, the present specific BCCM® catalogue lists well controlled strains, either recommended or alternative, for standards or standardised methods in some industrial sectors related to microbiology.

The study was performed thanks to the program of the Belgian Science Policy that supports the federal policy concerning the whole activities relating to standardisation and technical regulations (Project number: NM/A22).

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The complete catalogues of the BCCM® Strains including other test and control strains as well as bioassay strains are available on our website:

www.belspo.be/bccm

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Part 1: Strains

This catalogue represents a limited number of strains selected from the BCCM® public collections.

Strains are sorted by species name. Below the species name, you will find the accession number of the strain in the BCCM® collection and the synonymous strain designations, the strain history and the standards and standardised methods used by BCCM® to check the performance of the BCCM® strain.

Bacteria

Bacillus cereus Frankland and Frankland 1887^{AL}

LMG 8221

ATCC® 9634TM; ATCC® 11778TM; DSM 345; NCIB 8012; NCIB 9231; NCTC 10320; FDA strain PCI213; Waksman strain O.

← 1988, ATCC® 11778TM ← FDA (*Bacillus mycoides*).

Performance checked according to the following standards: ISO 7932, XP-V 08-058, ISO/TS 11133-2, NF V 04-503.

Bacillus coagulans Hammer 1915^{AL}

LMG 6326T

ATCC® 7050TM; CCM 2013; CCUG 7417; CECT 12; CIP 66.25; CN 2202; DSM 1; IAM 1115; IAM 12463; IFO 12583; JCM 2257; NCFB 1761; NCIB 9365; NCTC 10334; NRRL NRS-609; NRS 609; OUT 8348; OUT 8403; USCC 2116; FIRDI 606; Gibson 1121; Logan B0005; Logan B0194; Logan B0936; LMG 17450; LMG 17455.

← 1984, DSM ← ATCC ← N.Smith ← J.Porter ← B.Hammer, evaporated milk.

Performance checked according to the following standards: ISO 7932, XP-V 08-058.

Bacillus subtilis subsp. *spizizenii* Nakamura, Roberts and Cohan 1999^{VP}

LMG 8197

ATCC® 6633TM; CCM 1999; DSM 347; IFO 3134; IFO 13720; JCM 2499; NCIB 8054; NCIMB 8566; NCTC 10400; NRS 231.

← 1988, NCIB (*Bacillus subtilis*) ← ATCC ← N.Smith ← K.Kellerman.

Performance checked according to the following standards: Eur. Pharm. 2.6.1, Eur. Pharm. 2.6.12, ISO 7932, ISO/TS 11133-2, XP-V 08-058.

Campylobacter coli (Doyle 1948) Véron and Chatelain 1973^{AL}

LMG 21266

ATCC® 43478TM; Penner 76-GA2.

← 2001, ATCC ← J.Penner ← M.Karmali ← R.Kaplan. Marmoset, faeces.

Performance checked according to the following standards: ISO 10272, ISO/TS 11133-2, SP-VG M003.

Campylobacter jejuni subsp. *jejuni* (Jones, Orcutt and Little 1931) Véron and Chatelain 1973^{AL}

LMG 18455

ATCC® 33291TM; CCUG 33057; Martin AS-83-79.

← 1998, CCUG ← 1994, ATCC ← R.Martin (*Campylobacter fetus* subsp. *jejuni*) ← W.Wang. Colorado U.S.A., human, faeces.

Performance checked according to the following standards: ISO 10272, ISO/TS 11133-2, SP-VG M003.

Citrobacter freundii (Braak 1928) Werkman and Gillen 1932^{AL}

LMG 21265

ATCC® 43864TM; LRA 117.03.76.
← 2001, ATCC ← API System.

Performance checked according to the following standards: AFNOR 3M-01/2-09/89 Petrifilm Coliform Count Plate, AFNOR 3M-01/5-03/97 Petrifilm Rapid Coliform Count Plate, AFNOR 3M-01/7-03/99 Petrifilm High-Sensitivity Coliform Count Plate, FIL 73B, ISO 4832, ISO 9308-1, NF V 08-050, NF V 08-060.

Clostridium perfringens (Veillon and Zuber 1898) Hauduroy, Ehringer, Urbain, Guillot and Magrou 1937^{AL}

LMG 11264^T

ATCC® 13124TM; ATCC® 19408TM; CCM 5744; CCTM La 2957; CCUG 1795; CECT 376; CN 1491; CNCTC CI 68/83; DSM 756; JCM 1290; NCIB 6125; NCTC 6125; NCTC 8237; FIRDI 913; strain S 107.
← 1991, ATCC® 13124TM ← NCTC 8237 (*Clostridium welchii*) ← Wellcome Lab. Bovine.

Performance checked according to the following standards: ISO 7937, NF V 08-056, ISO/TS 11133-2.

Clostridium sporogenes (Metchnikoff 1908) Bergey, Harrison, Breed, Hammer and Huntoon 1923^{AL}

LMG 10143

ATCC® 19404TM; CIP 79.03; DSM 1664; NCIB 532; NCTC 532; Robertson SR5.
← 1990, ATCC ← NCTC ← M.Robertson. Gas gangrene sample.

No performance checked. Recommended strain for Eur. Pharm. 2.6.1.

Enterococcus faecalis (Andrewes and Horder 1906) Schleifer and Kilpper-Bälz 1984^{VP}

LMG 7937^T

ATCC® 19433TM; CCUG 19916; CECT 481; DSM 20478; NCFB 581; NCIMB 775; NCTC 775; RIMD 3116001; FIRDI 66; strain Tissier.
← 1987, DSM via Unilever (*Streptococcus faecalis*) ← NCDO ← NIRD.

Performance checked according to the following standards: ISO 7899-2, Mossel p. 416-418, AFNOR 3M-01/2-09/89 Petrifilm Coliform Count Plate, AFNOR 3M-01/5-03/97 Petrifilm Rapid Coliform Count Plate, AFNOR 3M-01/6-09/97 Petrifilm *Enterobacteriaceae* Count Plate, AFNOR 3M-01/7-03/99 Petrifilm High-Sensitivity Coliform Count Plate, EN 12824, FDA-BAM p. 6.01-6.06, FIL 73B, FIL 93B, FIL 143A, ISO 4832, ISO 6340, ISO 6579, ISO 7402, ISO 9308-1, ISO 11290, Mossel p. 421-422, NF V 08-050, NF V 08-052, NF V 08-054, NF V 08-055, NF V 08-060, ISO/TS 11133-2, SP-VG M002.

Enterococcus faecium (Orla-Jensen 1919) Schleifer and Kilpper-Bälz 1984^{VP}

LMG 11423^T

ATCC® 19434TM; CCRC 10067; CCUG 542; CECT 410; CIP 103014; DSM 20477; GIFU 8355; JCM 5804; NCFB 942; NCIMB 11508; NCTC 7171; NRIC 1145; strain OJ; LMG 8149; LMG 12692.
← 1991, NCFB ← 1956, NCTC ← 1946, A.Grumbach. Grumbach serotype 11.

Performance checked according to the following standards: ISO 7899-2, Mossel p. 416-418.

Enterococcus hirae Farrow and Collins 1985^{VP}

LMG 10274

ATCC®10541TM; CIP 58.55; DSM 3320; NCIMB 8192; FDA M19; PCI 1341.
← 1990, ATCC (*Enterococcus faecium*) ← FDA.

No performance checked. Recommended strain for NF T 72-281.

Escherichia coli (Migula 1895) Castellani and Chalmers 1919^{AL}

LMG 8063

ATCC® 8739TM; CIP 53.126; DSM 1576; IFO 3972; IMET 11121; NCDO 904; NCIB 8545; Gonsalus strain Crooks.

← 1987, DSM ← ATCC ← L.Gonsalus ← C.Crooks. Faeces.

Performance checked according to the following standards: AFNOR 3M-01/2-09/89 Petrifilm Coliform Count Plate, AFNOR 3M-01/5-03/97 Petrifilm Rapid Coliform Count Plate, AFNOR 3M-01/6-09/97 Petrifilm *Enterobacteriaceae* Count Plate, AFNOR 3M-01/7-03/99 Petrifilm High-Sensitivity Coliform Count Plate, AFNOR 3M-01/8-06/01 Petrifilm Select *E. coli* Count Plate, AFNOR BIO-12/5-01/99 Coli-ID, AFNOR SDP-07/1-07/93 Rapid *E. coli* 2, Eur. Pharm. 2.6.12, FIL 73B, ISO 4832, ISO 7402, ISO 9308-1, ISO 11866-3, NF V 08-050, NF V 08-053, NF V 08-054, NF V 08-060, ISO/TS 11133-2, EN 12824, FDA-BAM p. 9.01-9.27, FIL 93B, FIL 138, FIL 143A, FIL 145A, ISO 6340, ISO 6579, ISO 6888, ISO 7899-2, ISO 7932, ISO 10272, ISO 10273, ISO 11290, Mossel p. 416-418, NF V 04-503, NF V 08-052, NF V 08-055, NF V 08-057, SP-VG M001, SP-VG M002, SP-VG M003, SP-VG M004, SP-VG M006, XP-V 08-058.

LMG 8223

ATCC® 25922TM; DSM 1103; NCIMB 12210; FDA strain Seattle 1946.

← 1988, ATCC ← FDA ← F.Schoenknecht. Clinical isolate.

Performance checked according to the following standards: AFNOR 3M-01/2-09/89 Petrifilm Coliform Count Plate, AFNOR 3M-01/5-03/97 Petrifilm Rapid Coliform Count Plate, AFNOR 3M-01/6-09/97 Petrifilm *Enterobacteriaceae* Count Plate, AFNOR 3M-01/7-03/99 Petrifilm High-Sensitivity Coliform Count Plate, AFNOR 3M-01/8-06/01 Petrifilm Select *E. coli* Count Plate, AFNOR BIO-12/5-01/99 Coli-ID, AFNOR SDP-07/1-07/93 Rapid *E. coli* 2, FIL 73B, ISO 4832, ISO 7402, ISO 9308-1, ISO 11866-3, NF V 08-050, NF V 08-053, NF V 08-054, NF V 08-060, ISO/TS 11133-2, EN 12824, FIL 93B, FIL 138, FIL 145A, ISO 6340, ISO 6579, ISO 6888, ISO 7932, ISO 7937, ISO 10273, ISO 13720, NF V 04-503, NF V 04-504, NF V 08-052, NF V 08-056, NF V 08-057, SP-VG M001, SP-VG M002, SP-VG M004, XP-V 08-058.

serotype **O157:H7**

LMG 21756

ATCC® 700728TM; NCTC 12900; BDMS T4169

← 2002, ATCC ← Becton Dickinson Microbiology Systems ← R. Hammann. Nontoxigenic.

Performance checked according to the following standards: ISO 9308-1, ISO 11866-3, SP-VG M001, AFNOR 3M-01/8-06/01 Petrifilm Select *E. coli* Count Plate, AFNOR BIO-12/5-01/99 Coli-ID, AFNOR SDP-07/1-07/93 Rapid *E. coli* 2, NF V 08-053.

Lactobacillus sakei subsp. *sakei* Katagiri, Kitahara and Fukami 1934^{AL}

LMG 9468^T

ATCC® 15521TM; CCRC 14622; CCUG 30501; CECT 906; CIP 103139; DSM 20017; IFO 15893; JCM 1157; NCFB 2714; NCIMB 13090; NRIC 1071; Kitahara strain TS; Kitahara TS37; Kitahara 37; LMG 11718; LMG 13558; LMG 16700.

← 1989, DSM (*Lactobacillus sakei*) ← ATCC ← K.Kitahara.

Performance checked according to the following standards: NF V 04-503, ISO/TS 11133-2.

Lactococcus lactis subsp. *lactis* (Lister 1873) Schleifer, Kraus, Dvorak, Kilpper-Bälitz, Collins and Fischer 1986^{VL}

LMG 6890^T

ATCC® 9936TM; ATCC® 19435TM; BU 302; CCM 1877; CCTM 3105; CCUG 7980; CECT 185; CIP 70.76; CNCTC Str N 25/58; DSM 20481; HNCMB 80146; NCFB 604; NCIMB 6681; NCTC 6681; USCC 1394; Bridge PB48; Bridge PB93; Cayeux N30; Feltham K466; IEM Str N 25/58; Jones W59; Lancefield grouping strain C559; strain O. J.

← 1985, NCIB (*Streptococcus lactis*) ← NCTC ← 1941, P.Shattock NIRD (1941), Shinfield U.K.

Performance checked according to the following standards: NF V 04-503, ISO/TS 11133-2, ISO 7899-2, Mossel p. 416-418.

Listeria innocua Seeliger 1983^{VL}

LMG 11387^T

ATCC® 33090TM; CIP 80.11; CLIP 12511; DSM 20649; NCTC 11288; SLCC 3379; Seeliger 58; Seeliger SLCC 3379.

← 1991, Rijkszuivelstation Melle Belgium CIP 80.11 ← CIP ← 1980, H.Seeliger (*Listeria monocytogenes* serotype 4f). Serovar 6a.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055.

Listeria ivanovii Seeliger, Rocourt, Schrettenbrunner, Grimont and Jones 1984^{VP}

LMG 11388

ATCC® 19119TM; CCM 5884; CIP 78.42; CLIP 12510; DSM 20750; NCTC 11846; SLCC 2379; WSLC 3010; Donker-Voet 74a; RZS MB 191; RZS MB 221 11388T ; Seeliger Li 1979; Seeliger SLCC 2379; strain SV5; LMG 16756; LMG 16762.

← 1991, Rijkszuivelstation Melle Belgium CIP 78.42 ← CIP ← 1978, H.Seeliger (*Listeria monocytogenes* serotype 5) ← I.Ivanov, Bulgaria, sheep. Serovar 5.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055.

Listeria monocytogenes (Murray, Webb and Swann 1926) Pirie 1940^{AL}

LMG 13305

NCTC 11994; Pini F.646/86.

← 1993, NCTC ← 1986, P.Pini CPHL Colindale. Soft cheese. Serovar 4b.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055.

LMG 21263

ATCC® 19111TM; Paterson LS/2; Seeliger Li20

← 2001, ATCC ← H.Seeliger ← S.Paterson. England U.K., poultry. Serovar 1.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055, ISO/TS 11133-2.

LMG 21264

ATCC® 13932TM; NCTC 10527; Seeliger 1071/53.

← 2001, ATCC ← H.Seeliger ← Preuss. Germany, child with meningitis, spinal fluid. Serovar 4b.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055, ISO/TS 11133-2.

Pediococcus damnosus Claussen 1903^{AL}

LMG 11484^T

ATCC® 29358TM; CCM 3453; CCUG 32251; CIP 102264; DSM 20331; JCM 5886; NCFB 1832; NCIMB 12010; Coster Be1; Williamson Be1.

← 1991, NCFB ← 1956, Queen Elizabeth College London University.

Performance checked according to the following standards: NF V 04-503, ISO/TS 11133-2.

Proteus mirabilis Hauser 1885^{AL}

LMG 3257^T

ATCC® 29906TM; CDC PR14; CECT 4168; NCTC 11938.

← 1979, ATCC ← CDC.

Performance checked according to the following standards: FDA-BAM p. 6.01-6.06, FDA-BAM p. 9.01-9.27, ISO 10272, Mossel p. 421-422, SP-VG M003, SP-VG M006.

Pseudomonas aeruginosa (Schroeter 1872) Migula 1900^{AL}

LMG 1242^T

AJ 2116; ATCC® 10145TM; BU 277; CCEB 481; CCEB 766; CCM 481; CCM 1960; CCTM 2773; CCUG 551; CECT 110; CIP 63.52; CNCTC Ps 153/77; DSM 50071; IAM 1514; ICPB 2523; IFO 3756; IFO 12689; IMET 10403; JCM 5962; NCDO 1369; NCIB 8295; NCPPB 1965; NCTC 10332; NRRL B-771; UQM 495; USCC 2030; VKM B-588; FIRDI 944; KM 274; Kosako 85002; RH 815.

← CCEB 481 ← 1959, O.Lysenko ← Inst. Biol. Prague ← NCIB ← 1952, ATCC ← F.Kavanagh
← Merck, Sharp and Dohme.

Performance checked according to the following standards: ISO 13720, NF V 04-504.

LMG 6395

ATCC® 27853TM; CCTM 2766; CCTM 2767; CCUG 1423; CCUG 7737; CCUG 17619; CECT 108; CIP 76.110; CNCTC Ps 133/71; DSM 1117; NCIMB 12469; Hansen H50; Medeiros strain Boston 41501; LMG 18448.

← 1984, W.Hansen Hôpital Universitaire Brugmann Brussels Belgium ← ATCC® 27853TM ← A.Medeiros.

Performance checked according to the following standards: Eur. Pharm. 2.6.1, ISO 13720, NF V 04-504, AFNOR 3M-01/2-09/89 Petrifilm Coliform Count Plate, AFNOR 3M-01/5-03/97 Petrifilm Rapid Coliform Count Plate, AFNOR 3M-01/7-03/99 Petrifilm High-Sensitivity Coliform Count Plate, AFNOR 3M-01/8-06/01 Petrifilm Select *E. coli* Count Plate, AFNOR BIO-12/5-01/99 Coli-ID, AFNOR SDP-07/1-07/93 Rapid *E. coli* 2, FDA-BAM p. 9.01-9.27, FIL 73B, ISO 4832, ISO 11866-3, NF V 08-050, NF V 08-053, NF V 08-060, ISO/TS 11133-2, SP-VG M006.

LMG 8029

ATCC® 9027TM; BUCSAV 728; CCM 1961; CIP 82.118; DSM 1128; DSM 1385; IAM 10374; IFO 13275; NCIMB 8626; NRRL B-800.

← 1987, DSM 1128 ← ATCC ← C.Hegarty. Infected outer ear.

No performance checked. Recommended strain for Eur. Pharm. 2.6.1.

LMG 10639

CIP A22.

← 1990, CIP ← Bass. (1918), Wound.

No performance checked. Recommended strain for NF T 72-281.

Rhodococcus equi (Magnusson 1923) Goodfellow and Alderson 1977^{AL}

LMG 18452^T

AJ 1402; ATCC® 6939TM; ATCC® 25729TM; CCUG 892; CECT 555; CIP 54.72; DSM 20307; DSM 43349; IAM 12426; IMET 7467; JCM 1311; NCIMB 12828; NCTC 1621; NRRL B-16538; Goodfellow R71; Gordon 1621; Magnusson strain Foal; LMG 5358.

← 1998, ATCC® 6939TM ← NCTC ← H.Magnusson. (1922), foal, lung abscess.

Performance checked according to the following standards: FIL 143A, ISO 11290, NF V 08-055.

Salmonella choleraesuis subsp. *choleraesuis* (Smith 1894) Weldin 1927^{AL}

serotype *abony*

LMG 18222

CCM 4518; CCUG 20832; CCUG 21354; CIP 80.39; DSM 4224; NCTC 6017; Kaufmann K103.

← 1997, CIP (*Salmonella enterica* subsp. *enterica*) ← 1980, L.Le Minor Inst. Pasteur Paris France (*Salmonella abony*) ← 1940, F.Kaufmann Copenhagen Denmark. Antigenic formula: 1,4,5,12:b:e,n,x. Two stable colony types (t1) and (t2) showing minor differences in gelelectrophoretic protein profiles (SDS-PAGE).

Performance checked according to the following standards: EN 12824, FIL 93B, ISO 6340, ISO 6579, NF V 08-052, SP-VG M002.

serotype *enteritidis*

LMG 10395

ATCC® 13076™; ATCC® 25928™; CDC K-1891.
← 1990, ATCC® 13076 (*Salmonella enteritidis*) ← CDC. Antigenic formula: 1,9,12:g,m:- (ATCC catalogue). Type strain of *Salmonella enteritidis*.

Performance checked according to the following standards: EN 12824, FIL 93B, ISO 6340, ISO 6579, NF V 08-052, ISO/TS 11133-2, SP-VG M002.

serotype *typhimurium*

LMG 14933

ATCC® 14028™; CCRC 10747; CDC 6516-60; CIP 104115; NCIMB 13284; NCTC 12023.
← 1994, ATCC← CDC (*Salmonella typhimurium*).

Performance checked according to the following standards: AFNOR 3M-01/6-09/97 Petrifilm *Enterobacteriaceae* Count Plate, EN 12824, FIL 93B, ISO 6340, ISO 6579, ISO 7402, NF V 08-052, NF V 08-054, ISO/TS 11133-2, SP-VG M002

Staphylococcus aureus subsp. *aureus* Rosenbach 1884^{AL}

LMG 8064

ATCC® 6538™; CCTM 2103; CCUG 1623; CCUG 10778; CECT 239; CIP 4.83; CNCTC Mau 29/58; DSM 799; HMGB B865; IFO 13276; IMET 10761; NCIB 9518; NCTC 10788; FDA 209; FIRDI 941; IEM Mau 29/58.

← 1987, DSM (*Staphylococcus aureus*) ← ATCC ← FDA ← AMC. Human, lesion.

No performance checked. Recommended strain for Eur. Pharm. 2.6.1 and Eur. Pharm. 2.6.12

LMG 8195

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

← 1988, DSM (*Staphylococcus aureus*) ← ATCC ← FDA

Performance checked according to the following standards: Eur. Pharm. 2.6.1, Eur. Pharm. 2.6.12, FIL 138, FIL 145A, ISO 6888, NF V 08-057, ISO/TS 11133-2.

LMG 8224

ATCC® 25923™; CCTM 2816; CCUG 7738; CCUG 17621; CECT 435; CIP 76.25; CNCTC Mau 80/73; DSM 1104; JCM 2413; NCIMB 12702; FDA strain Seattle 1945.

← 1988, ATCC (*Staphylococcus aureus*) ← FDA ← F.Schoenknecht.

Performance checked according to the following standards: Eur. Pharm. 2.6.1, Eur. Pharm. 2.6.12, FIL 138, FIL 145A, ISO 6888, NF V 08-057, ISO/TS 11133-2, ISO 10272, ISO 10273, ISO 13720, NF V 04-504, SP-VG M003, SP-VG M004, FIL 143A, ISO 11290, NF V 08-055

LMG 10640

ATCC® 9144™; CCM 2107; CIP 53.154; DSM 683; NCIB 6571; NCTC 6571; NRRL B-314; Merck Inc. 3R7089; strain Oxford.

← 1990, CIP (*Staphylococcus aureus*) ← 1953, ATCC ← Merck ← N.Heatly.

No performance checked. Recommended strain for NF T 72-281

Staphylococcus epidermidis (Winslow and Winslow 1908) Evans 1916^{AL}

LMG 10273

ATCC® 12228™; CIP 68.21; DSM 1798; IFO 12993; NCIMB 8853; FDA PCI 1200; WHO 12.
← 1990, ATCC ← FDA.

Performance checked according to the following standards: FIL 138, FIL 145A, ISO 6888, NF V 08-057, ISO/TS 11133-2.

Vibrio parahaemolyticus (Fujino, Okuno, Nakada, Aoyama, Fukai, Mukai and Ueho 1951) Sakazaki, Iwanami and Fukumi 1963^{AL}

LMG 2850^T

ATCC® 17802TM; CCTM 2011; CCUG 14474; CCUG 15657; CDC 9062-79; CECT 511; CIP 75.02; NCMB 1902; NCTC 10903; RIMD 2210001; USCC 2240; Baumann 113; FIRDI 806; Fujino EB101; Lee MV1424; Verdonck VIB 304.

← 1973, ATCC® ← T.Fujino. (1951), Japan, patient suffering from "Shirashu" food poisoning.

Performance checked according to the following standards: FDA-BAM p. 9.01-9.27, SP-VG M006.

Yersinia enterocolitica subsp. ***enterocolitica*** (Schleifstein and Coleman 1939) Frederiksen 1964^{AL}

serotype **0:8**

LMG 7899^T

ATCC® 9610TM; CCUG 11291; CCUG 12369; CIP 80.27; DSM 4780; Coffey 33114; Frederiksen P310; Mollaret CNY 161.

← 1987, CCUG 11291 (*Yersinia enterocolitica*) ← 1981, CIP ← 1980, H.Mollaret Inst. Pasteur Paris France ← 1932, R.Pike (*Bacterium enterocoliticum*). (1932), France, face with glanders-like infection. Biotype 1, lysotype Xz. Culture contains two stable colony types giving identical gelelectrophoretic protein profiles (SDS-PAGE).

Performance checked according to the following standards: ISO 10273, SP-VG M004, ISO/TS 11133-2.

serotype **0:3**

LMG 15558

CCUG 8233; CIP 81.41; DSM 9676; IP 134; Mollaret CNY134; SW 897/63.

← 1994, CIP (*Yersinia enterocolitica*) ← 1981, H.Mollaret Inst. Pasteur Paris France. (1963), Malmö Sweden, human with acute terminal ileitis, mesenteric lymph node. Lysotype 8.

Performance checked according to the following standards: ISO 10273, SP-VG M004, ISO/TS 11133-2.

Filamentous Fungi and Yeasts

Coniophora puteana (Schumacher: Fries) P. Karsten
syn. *Coniophora cerebella* (Persoon) Duby

MUCL 11662

BAM 15

BAM (as *Coniophora cerebella* Persoon : Fries) -> 1978, MUCL

Recommended test strain for the European Standard EN 113, the European Prestandard ENV 839, the European Prestandard ENV 12038

MUCL 30714

C. Decock -> 1990, MUCL

Alternative test strain for the European Standard EN 113, the European Prestandard ENV 839, the European Prestandard ENV 12038

MUCL 31046

C. Decock -> 1991, MUCL

Alternative test strain for the European Standard EN 113, the European Prestandard ENV 839, the European Prestandard ENV 12038

Gloeophyllum trabeum (Persoon : Fries) Murrill
syn. *Lenzites trabea* Persoon : Fries

MUCL 11353

BAM 109; FPRL 108N; MUCL 11663

BAM -> TNO (H.I.D. 57) (as *Lenzites trabea* Persoon : Fries) -> 1968, MUCL

Recommended test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, the European Prestandard ENV 12038

Lentinus lepideus (Fries : Fries) Fries

syn. *Lentinus squamosus* Schaeffer

MUCL 40109 | ... -> M. Nuñez -> 1996, MUCL

Alternative test strain for the European Standard EN 113, the European Prestandard ENV 12038

Oligoporus placentus (Fries) Ryvarden & Gilbertson

syn. *Poria placenta* (Fries) Cooke

syn. *Postia placenta* (Fries) Cooke

MUCL 20569

FPRL 280

... -> P. Roosen (as *Poria monticola* Murrill) -> 1979, MUCL

Recommended test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, alternative test strain for the European Prestandard ENV 12038

MUCL 30789

WFPL 120AR

... -> WFPL -> 1990, MUCL

Alternative test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, the European Prestandard ENV 12038

Pleurotus ostreatus (Jacquin : Fries) Kummer

MUCL 31535 | O. Hilber -> 1991, MUCL

Alternative test strain for the European Prestandard ENV 12038

MUCL 38041

C. Decock -> 1993, MUCL

Alternative test strain for the European Prestandard ENV 12038

Serpula lacrymans (Wulfen : Fries) Schroeter

syn. *Merulius lacrymans* Wulfen : Fries

MUCL 34572 | C. Decock -> 1992, MUCL

Alternative test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 12038

Trametes versicolor (Linnaeus : Fries) Pilát

syn. *Polystictus versicolor* (Linnaeus : Fries) Fries

MUCL 11665

BAM 863-A; CTB 863A

BAM -> CBS (as *Coriolus versicolor* (Linnaeus : Fries) Quélet) -> 1968, MUCL

Recommended test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, the European Prestandard ENV 12038

MUCL 28407

G.L. Hennebert -> 1983, MUCL

Alternative test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, the European Prestandard ENV 12038

MUCL 38412

ATCC® 42530™; FCUP 642

S.C. Jong (ATCC) -> T.H. Quimio (FCUP) -> 1993, MUCL

Alternative test strain for the European Standard EN 113, the European Standard EN 350-1, the European Prestandard ENV 839, the European Prestandard ENV 12038

Aspergillus brasiliensis Varga et al.

IHEM 3766

ATCC® 16404™; B 42936; DSM 1988; IFO 9455; IMI 149007; IP 1431.83; MUCL 29039
Vaccinium sp. (blueberry), USA, North Carolina; S.M. Ringel -> ATCC -> 1984, B -> 1988,
IHEM (as *Aspergillus niger* Van Tieghem)

Recommended test strain for the pr ISO/TS 11133-2, Eur. Pharm. 2.6.12 and 2.6.1, EN 1275, EN 1650, EN 1657

Candida albicans (Robin) Berkhout

IHEM 3731

ATCC® 10231™; B 49904; CBS 6431; DSM 1386; IFO 1594; MUCL 30114; NCPF 3179;
NCYC 1363; NIH 3147; VTT C-85161
Bronchomycosis; Wright -> C.W. Emmons -> NIH -> ATCC -> B -> 1988, IHEM.
Recommended test strain for the pr ISO/TS 11133-2, Eur. Pharm. 2.6.12 and 2.6.1, EN
1275, EN 1650, EN 1657

IHEM 3740

ATCC® 2091™; B 41838; CBS 2730; DSM 1665; IFO 1393; IP 1180.79; MUCL 38887; NCYC
854; NRRL Y-79
R. Chodat as *Endomyces albicans* (Robin) Vuillemin -> ... -> IP -> 1985, B -> 1988, IHEM

Recommended test strain for the NF T72-281

Penicillium aurantiogriseum Dierckx var. **aurantiogriseum**

IHEM 18001

IP 1186.79
LCP -> 1979, IP as *Penicillium cyclopium* -> 2001, IHEM

Recommended test strain for the NF T72-281

Penicillium hirsutum Dierckx

IHEM 19610

ATCC® 16025™; CBS 201.57; CECT 2812; IMI 19759; MUCL 19012; QM 840
Bulb of *Hyacinthus* sp., UK, England; isol. A.S. Boughey 1947; det. R.A. Samson 1975;
1957, IMI -> 2002, IHEM

Recommended test strain for the pr ISO/TS 11133-2

Saccharomyces cerevisiae Hansen

IHEM 3961

ATCC® 9763™; B 42428; CBS 2978; CCRC 20822; DSM 1333; MUCL 30115; NCTC 10716;
NCYC 87; NRRL Y-567
Distillery yeast, L.J. Wickerham -> ATCC -> B -> 1988, IHEM

Recommended test strain for the ISO/TS 11133-2, EN 1650

IHEM 17987

DSM 70487; MUCL 27817
Super-attenuated beer, J. Andrews -> R.B. Gilliland (C-602) as *Saccharomyces diastaticus*
-> S. Winidisch (Sa-1104) -> DSM -> 1980, MUCL -> 2001, IHEM

Recommended test strain for the EN 1650

Part 2: Standards

Standards and standardised methods are sorted by their reference. After this reference, you will find the complete title of the standard, the year of edition if appropriate, and the strains to be used (recommended, alternative, proposed).

Information related to strains studied is given in the following order:

- the species name
- accession number in the BCCM collections
- accession number in another collection
- a codification

Codifications used:

P	positive control
N	negative control
R	recommended strain in the standard
A	alternative strain to the one recommended in the standard, or strain proposed by BCCM in case the standard does not specify a strain
L _f +	strain inducing a loss of mass conform to the standard (<i>Fagus sylvatica</i>)
L _p +	strain inducing a loss of mass conform to the standard (<i>Pinus sylvestris</i>)
L _f -	strain with an insufficient action on wood (<i>Fagus sylvatica</i>)
L _p -	strain with an insufficient action on wood (<i>Pinus sylvestris</i>)
nt	not tested

Food

AFNOR 3M-01/2-09/89: Petrifilm Coliform Count Plate

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

AFNOR 3M-01/5-03/97: Petrifilm Rapid Coliform Count Plate

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

AFNOR 3M-01/6-09/97: Petrifilm *Enterobacteriaceae* Count Plate

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype typhimurium	LMG 14933	ATCC® 14028™	P A

AFNOR 3M-01/7-03/99: Petrifilm High-Sensitivity Coliform Count Plate

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

AFNOR 3M-01/8-06/01: Petrifilm Select *E. coli* Count Plate

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

AFNOR BIO-12/5-01/99: Coli-ID

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

AFNOR SDP-07/1-07/93: Rapid *E. coli* 2

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

EN 12824: Microbiology of food and animal feeding stuffs – Horizontal method for the detection of *Salmonella* (1997)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC® 6017™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

FDA-BAM p. 9.01-9.27: *Vibrio* (1995)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Proteus mirabilis</i>	LMG 3257	ATCC® 29906™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A
<i>Vibrio parahaemolyticus</i>	LMG 2850	ATCC® 17802™	P A

FIL 73B: Milk and milk products – Enumeration of Coliforms – Part 1: Colony count technique at 30°C without resuscitation (1998)

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

FIL 93B: Milk and milk products – Detection of *Salmonella* (1995)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC®13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

FIL 138: Dried milk – Enumeration of *Staphylococcus aureus* – Colony count technique at 37°C (1986)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC® 6538P™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	P A
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC® 12228™	N A

FIL 143A: Milk and milk products – Detection of *Listeria monocytogenes* (1995)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Listeria innocua</i>	LMG 11387	ATCC® 33090™	P A
<i>Listeria ivanovii</i>	LMG 11388	ATCC® 19119™	P A
<i>Listeria monocytogenes</i>	LMG 13305	NCTC® 11994™	P A
<i>Listeria monocytogenes</i>	LMG 21263	ATCC® 19111™	P A
<i>Listeria monocytogenes</i>	LMG 21264	ATCC® 13932™	P A
<i>Rhodococcus equi</i>	LMG 18452	ATCC® 6939™	A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	A

FIL 145A: Milk and milk-based products – Enumeration of coagulase-positive *Staphylococci* – Colony count technique (1997)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC® 6538P™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	P A
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC® 12228™	N A

ISO 4832: Microbiology – General guidance for the enumeration of Coliforms – Colony count technique (1991)

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

ISO 6340: Water quality – Detection of *Salmonella* species (1995)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

ISO 6579: Microbiology – General guidance on methods for the detection of *Salmonella* (1993)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 2592™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

ISO 6888: Microbiology of food and animal feeding stuffs – Horizontal method for the enumeration of coagulase-positive *Staphylococci* (1999)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC® 6538P™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	P A
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC® 12228™	N A

ISO 7402: Microbiology – General guidance for the enumeration of *Enterobacteriaceae* without resuscitation – MPN technique and colony-count technique (1993)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

ISO 7899-2: Water quality – Detection and enumeration of intestinal *Enterococci* – Part 2: Membrane filtration method (2000)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	P A
<i>Enterococcus faecium</i>	LMG 11423	ATCC® 19434™	P A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC® 19435™	N A

ISO 7932: Microbiology – General guidance for the enumeration of *Bacillus cereus* – Colony-count technique at 30°C (1993)

<i>Bacillus cereus</i>	LMG 8221	ATCC® 11778™	P A
<i>Bacillus coagulans</i>	LMG 6326	ATCC® 7050™	N A
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC® 6633™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A

ISO 7937: Microbiology of food and animal feeding stuffs – Horizontal method for enumeration of *Clostridium perfringens* – colony count technique (1997)

<i>Clostridium perfringens</i>	LMG 11264	ATCC® 13124™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A

ISO 9308-1: Water quality – Detection and enumeration of Coliform organisms, thermotolerant Coliform organisms and presumptive *Escherichia coli* – Part 1: Membrane filtration method (1990)

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	P A

ISO 10272: Microbiology of food and animal feeding stuffs – Horizontal method for detection of thermotolerant *Campylobacter* (1995)

<i>Campylobacter coli</i>	LMG 21266	ATCC® 43478™	P A
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC® 33291™	P A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Proteus mirabilis</i>	LMG 3257	ATCC® 29906™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A

ISO 10273: Microbiology – General guidance for the detection of presumptive pathogenic *Yersinia enterocolitica* (1994)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:8	LMG 7899	ATCC® 9610™	P A
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:3	LMG 15558	CIP 81.41	P A

ISO/TS 11133-2: Microbiology of food and animal feeding stuffs – Guidelines on preparation and production of culture media – Part 2: Practical guidelines on performance testing of culture media (ratified)

<i>Aspergillus brasiliensis</i>	IHEM 3766	ATCC® 16404™	P R nt
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC® 6633™	N R
<i>Campylobacter coli</i>	LMG 21266	ATCC® 43478™	P R
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC® 33291™	P R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	P R nt
<i>Clostridium perfringens</i>	LMG 11264	ATCC® 13124™	P R
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N R
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P N R
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P N R
<i>Lactobacillus sakei</i> subsp. <i>sakei</i>	LMG 9468	ATCC® 15521™	P R
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC® 19435™	P R
<i>Listeria monocytogenes</i>	LMG 21263	ATCC® 19111™	P R
<i>Listeria monocytogenes</i>	LMG 21264	ATCC® 13932™	P R
<i>Pediococcus damnosus</i>	LMG 11484	ATCC® 29358™	P R
<i>Penicillium hirsutum</i> (⇒ <i>P. cyclopium</i>)	IHEM 19610	ATCC® 16025™	P R nt
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N R
<i>Saccharomyces cerevisiae</i>	IHEM 3961	ATCC® 9763™	P R nt
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P R

<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC® 6538P™	P R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	P N R
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC® 12228™	N R
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:8	LMG 7899	ATCC® 9610™	P R

ISO 11290: Microbiology of food and animal feeding stuffs – Horizontal method for the detection and enumeration of *Listeria monocytogenes* (1996-1998)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Listeria innocua</i>	LMG 11387	ATCC® 33090™	P A
<i>Listeria ivanovii</i>	LMG 11388	ATCC® 19119™	P A
<i>Listeria monocytogenes</i>	LMG 13305	NCTC 11994	P A
<i>Listeria monocytogenes</i>	LMG 21263	ATCC® 19111™	P A
<i>Listeria monocytogenes</i>	LMG 21264	ATCC® 13932™	P A
<i>Rhodococcus equi</i>	LMG 18452	ATCC® 6939™	A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	A

ISO 11866-3: Milk and milk products – Enumeration of presumptive *Escherichia coli* – Part 3: Colony-count technique at 44°C using membranes (1997)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

ISO 13720: Meat and meat products – Enumeration of *Pseudomonas* spp. (1995)

<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Pseudomonas aeruginosa</i>	LMG 1242	ATCC® 10145™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A

Mossel D.A.A. Corry J.E.L., Struijk C.B., Baird R.M. Essentials of the Microbiology of foods- a textbook for advanced studies. John Wiley & Sons Ltd. Chichester. UK 1995. p. 416-418: Test for *Enterococcus* species (1995)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	P A
<i>Enterococcus faecium</i>	LMG 11423	ATCC® 19434™	P A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC® 19435™	N A

NF V 04-503: Meat and meat products – Enumeration of lactic bacteria (1988)

<i>Bacillus cereus</i>	LMG 8221	ATCC® 11778™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Lactobacillus sakei</i> subsp. <i>sakei</i>	LMG 9468	ATCC® 15521™	P A
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC® 19435™	P A
<i>Pediococcus damnosus</i>	LMG 11484	ATCC® 29358™	P A

NF V 04-504: Microbiology of food and animal feeding stuffs – Enumeration of *Pseudomonas* spp. in meats and meat products (1998)

<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Pseudomonas aeruginosa</i>	LMG 1242	ATCC® 10145™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A

NF V 08-050: Microbiology of food and animal feeding stuffs – Enumeration of Coliforms by colony-count technique at 30°C – Routine method (1999)

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

NF V 08-052: Microbiology of food and animal feeding stuffs – Detection of *Salmonella* – Routine method (1997)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

NF V 08-053: Food Microbiology – Enumeration of β -glucuronidase positive *Escherichia coli* by colony count technique at 44°C – Routine method (1993)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

NF V 08-054: Microbiology of food and animal feeding stuffs – enumeration of the Enterobacteria by colony count technique at 30°C – Routine method (1999)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

NF V 08-055: Microbiology of food and animal feeding stuffs – Detection of *Listeria monocytogenes* – Routine method (1997)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Listeria innocua</i>	LMG 11387	ATCC® 33090™	P A
<i>Listeria ivanovii</i>	LMG 11388	ATCC® 19119™	P A
<i>Listeria monocytogenes</i>	LMG 13305	NCTC 11994	P A
<i>Listeria monocytogenes</i>	LMG 21263	ATCC® 19111™	P A
<i>Listeria monocytogenes</i>	LMG 21264	ATCC® 13932™	P A
<i>Rhodococcus equi</i>	LMG 18452	ATCC® 6939™	A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	A

NF V 08-056: Food microbiology – Enumeration of *Clostridium perfringens* by colony count technique at 37°C – Routine method (1994)

<i>Clostridium perfringens</i>	LMG 11264	ATCC® 13124™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A

NF V 08-057: Food microbiology – Routine method for enumeration of coagulase positive *Staphylococcus* by colony-count technique at 37°C (1994)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC® 6538P™	P A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	P A
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC® 12228™	N A

NF V 08-060: Microbiology of food and animal feeding stuffs – Enumeration of thermotolerant Coliforms by colony-count technique at 44°C – Routine method (1996)

<i>Citrobacter freundii</i>	LMG 21265	ATCC® 43864™	P A
<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	P A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A

SP-VG M001: Microbiology of food – Method for detection of presumptive pathogenic *Escherichia coli* O157 (2000)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC® 700728™	P A

SP-VG M002: Microbiology of meats and meat products – Method for detection of *Salmonella* (1998)

<i>Enterococcus faecalis</i>	LMG 7937	ATCC® 19433™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC® 13076™	P A
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC® 14028™	P A

SP-VG M003: Microbiology of food of animal origin – Method for detection of thermotolerant *Campylobacter* (1998)

<i>Campylobacter coli</i>	LMG 21266	ATCC® 43478™	P A
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC® 33291™	P A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Proteus mirabilis</i>	LMG 3257	ATCC® 29906™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A

SP-VG M004: Microbiology of meats and meat products – Method for the detection of *Yersinia enterocolitica* 0:3 (1998)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC® 25923™	N A
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:8	LMG 7899	ATCC® 9610™	P A
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:3	LMG 15558	CIP 81.41	P A

SP-VG M006: Microbiology of food – Method for the detection of *Vibrio cholerae* or *Vibrio parahaemolyticus* (2000)

<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Proteus mirabilis</i>	LMG 3257	ATCC® 29906™	N A
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC® 27853™	N A
<i>Vibrio parahaemolyticus</i>	LMG 2850	ATCC® 17802™	P A

XP V 08-058: Food and animal feeding stuffs microbiology - Enumeration of *Bacillus cereus* by colony-counting technique at 30°C - Routine method (1995)

<i>Bacillus cereus</i>	LMG 8221	ATCC® 11778™	P A
<i>Bacillus coagulans</i>	LMG 6326	ATCC® 7050™	N A
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC® 6633™	N A
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	N A
<i>Escherichia coli</i>	LMG 8223	ATCC® 25922™	N A

Pharmacopoeia

European Pharmacopoeia 2.6.1: Sterility test (2001)

<i>Aspergillus brasiliens</i>	IHEM 3766	ATCC® 16404™	P R
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC® 6633™	P R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	P R
<i>Clostridium sporogenes</i>	LMG 10143	ATCC® 19404™	P R nt
<i>Pseudomonas aeruginosa</i>	LMG 8029	ATCC® 9027™	P R nt
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8064	ATCC® 6538™	P R nt

European Pharmacopoeia 2.6.12: Microbiological examination of non-sterile products (Total viable aerobic count) (2001)

<i>Aspergillus brasiliens</i>	IHEM 3766	ATCC® 16404™	P R
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC® 6633™	P R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	P R
<i>Escherichia coli</i>	LMG 8063	ATCC® 8739™	P R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8064	ATCC® 6538™	P R nt

Disinfectants and Antiseptics

EN 1275: Chemical disinfectants and antiseptics – Basic fungicidal activity (phase 1) (1986)

<i>Aspergillus brasiliens</i>	IHEM 3766	ATCC® 16404™	R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	R

EN 1650: Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in food, industrial, domestic, and institutional areas – Test method and requirements (phase 2, step 1) (1998)

<i>Aspergillus brasiliens</i>	IHEM 3766	ATCC® 16404™	R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	R
<i>Saccharomyces cerevisiae</i>	IHEM 3961	ATCC® 9763™	R
<i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	IHEM 17987	DSM 70487	R

EN 1657: Chemical disinfectants and antiseptics - Quantitative suspension test for the evaluation of fungicidal activity of chemical disinfectants and antiseptics used in veterinary field – Test method and requirements (phase 2, step 1) (2000)

<i>Aspergillus brasiliens</i>	IHEM 3766	ATCC® 16404™	R
<i>Candida albicans</i>	IHEM 3731	ATCC® 10231™	R

NF T 72-281: Disinfectants. Methods of airborne disinfection of surfaces – Determination of bactericidal, fungicidal and sporicidal activity (1986)

<i>Pseudomonas aeruginosa</i>	LMG 10639	CIP A22	R nt
<i>Staphylococcus aureus</i> subsp. <i>aureus</i> (<i>Staphylococcus aureus</i>)	LMG 10640	ATCC® 9144™	R nt
<i>Enterococcus hirae</i> (<i>Streptococcus faecium</i>)	LMG 10274	ATCC® 10541™	R nt
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i> (<i>Bacillus subtilis</i>)	LMG 8197	ATCC® 6633™	R nt
<i>Candida albicans</i>	IHEM 3740	CIP 1180-79	R
<i>Penicillium aurantiogriseum</i> var. <i>aurantiogriseum</i> (<i>P. verrucosum</i> var. <i>cyclopium</i>)	IHEM 18001	CIP 1186-79	R

Wood

EN 113: Wood preservatives - Test method for determining the protective effectiveness against wood destroying basidiomycetes - Determination of the toxic values (1996)

<i>Coniophora puteana</i>	MUCL 11662	BAM Ebw. 15	R L _p -
<i>Coniophora puteana</i>	MUCL 30714		A L _p +
<i>Coniophora puteana</i>	MUCL 31046		A L _p +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 11665	CTB 863 A	R L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 28407		A L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 38412		A L _f +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	R L _p -
<i>Lentinus lepideus</i>	MUCL 40109		A L _p +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 20569	FPRL 280	R L _p +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 30789		A L _p +
<i>Serpula lacrymans</i>	MUCL 34572		A L _p +

EN 350-1: Durability of wood and wood-based products - Natural durability of solid wood – Part 1: Guide to the principles of testing and classification of the natural durability of wood (1994)

<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 11665	CTB 863 A	R L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 28407		A L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 38412		A L _f +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	R L _p -
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 20569	FPRL 280	R L _p +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 30789		A L _p +
<i>Serpula lacrymans</i>	MUCL 34572		A L _p +

ENV 839: Wood preservatives - Determination of the preventive efficacy against wood destroying basidiomycete fungi (1993)

<i>Coniophora puteana</i>	MUCL 11662	BAM Ebw. 15	R L _p -
<i>Coniophora puteana</i>	MUCL 30714		A L _p +
<i>Coniophora puteana</i>	MUCL 31046		A L _p +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 11665	CTB 863 A	R L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 28407		A L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 38412		A L _f +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	R L _p -
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 20569	FPRL 280	R L _p +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 30789		A L _p +

ENV 12038: Durability of wood and wood-based products - Wood-based panels - Method of test for determining the resistance against wood-destroying basidiomycetes (1997)

<i>Coniophora puteana</i>	MUCL 11662	BAM Ebw. 15	R L _p -
<i>Coniophora puteana</i>	MUCL 30714		A L _p +
<i>Coniophora puteana</i>	MUCL 31046		A L _p +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 11665	CTB 863 A	R L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 28407		A L _f +
<i>Trametes versicolor</i> (; <i>Coriolus versicolor</i>)	MUCL 38412		A L _f +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	R L _p -
<i>Lentinus lepideus</i>	MUCL 40109		A L _p +
<i>Pleurotus ostreatus</i>	MUCL 31535		A L _f +
<i>Pleurotus ostreatus</i>	MUCL 38041		A L _f +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 20569	FPRL 280	A L _p +
<i>Oligoporus placentus</i> (; <i>Poria placenta</i>)	MUCL 30789		A L _p +
<i>Serpula lacrymans</i>	MUCL 34572		A L _p +

Part 3: Ordering information

Bacteria, filamentous fungi and yeasts are made available to all *bona fide* individuals operating in a professional environment suitable for handling living material of the biohazard group involved.

Material Transfer Agreement (MTA)

BCCM® strains are distributed according to the rules stipulated in the MTA (see page 31).

Please confirm in your first order letter that your organisation agrees with the conditions of the MTA.

Form of supply

BCCM/IHEM supplies its filamentous fungi and yeasts strains as freeze-dried cultures. On specific request, active cultures can be delivered.

BCCM/LMG supplies its bacteria strains as freeze-dried cultures. On specific request, cultures can be delivered as active cultures.

BCCM/MUCL supplies filamentous fungi and yeasts strains as active cultures. On specific request, freeze-dried cultures can be delivered.

Orders

Orders from new clients should be sent by mail or by fax on an official requisition form or a letterhead and signed by an authorised person responsible for handling biological material.

Along with his first delivery the client will receive the customer number allocated to his company/laboratory. This customer number is needed for further ordering by e-mail or via the BCCM website: <http://bccm.belspo.be/index.php>

Orders by phone must be confirmed by mail or fax.

All details on shipment and invoicing should be provided upon ordering.

For orders from abroad, and to avoid delay in delivery, copies of appropriate certificates or import licences, specific mailing tags or shipment regulations should accompany the order.

Please check with your local authorities if any permits are required.

Price list: <http://bccm.belspo.be/services/pricelist.php>

Orders should be sent to:

For BCCM/IHEM strains:

Biomedical Fungi and Yeasts Collection

Curator: Ch. Planard

Mycology and Aerobiology Section, Scientific Institute of Public Health
rue J. Wytsmanstraat 14, B-1050 Brussels - Belgium

Tel: +32 (0)2 642 55 18, Fax: +32 (0)2 642 55 19

e-mail: bccm.ihem@wiv-isp.be

For BCCM/LMG strains:

Bacteria Collection

Curator: Ir. C. Vereecke

Laboratorium voor Microbiologie, Universiteit Gent
K.L. Ledeganckstraat 35, B-9000 Gent - Belgium

Tel: +32 (0)9 264 51 08, Fax: +32 (0)9 264 53 46

e-mail: bccm.lmg@UGent.be

For BCCM/MUCL strains:

Agro-industrial Fungi and Yeasts Collection

Curator: Dr C. Decock

Unité de Microbiologie, Université catholique de Louvain

Croix du Sud 2, box L7.05.06, B-1348 Louvain-la-Neuve - Belgium

Tel: +32 (0)10 47 37 42, Fax: +32 (0)10 45 15 01

e-mail: bccm-mucl@uclouvain.be

BCCM General Conditions of Material Transfer

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