



# CATALOGUE OF TEST, CONTROL OR BIOASSAY STRAINS FROM BCCM CULTURE COLLECTIONS

## LIST OF STRAINS INVOLVED IN NORMS AND STANDARDISED MICROBIOLOGICAL METHODS

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

Thanks to a program of the Belgian Office for Scientific, Technical and Cultural Affairs (OSTC) supporting projects in the field of norms and normalisation, the BCCM Collections have been involved from 2000 to 2003 in a pilot study which the aim is to provide optimal services to laboratories and companies who should use well determined micro-organisms as reference material.

Thanks to this study, a series of strains, necessary as test, control or bioassay strains for a large range of norms or normalised microbiological methods, were selected and submitted to quality control and performance tests.

As a result, most strains can now be distributed with a certificate on identification and proved features.

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## TABLE OF CONTENTS

### Part 1: Norms by topics

Norms and normalised methods sorted by topics, with strains to be used (mandatory or recommended)

Food.....	5
Pharmacopoeia.....	13
Antiseptics and disinfectants .....	13
Wood .....	14

### Part 2: Strains

All the strains sorted by species

Bacteria.....	17
Fungi and yeasts .....	18



## PART 1: NORMS BY TOPICS

Norms and normalised methods are sorted by their code. After the code, you will find the complete title of the norm, the year of edition if appropriate, and the strains to be used (or recommended); following the species name, the acronym and the accession number of the strain in BCCM collections and the acronym and accession number of the equivalent culture as quoted in the norm are given, as well as a codification:

P	positive control
N	negative control
M	mandatory strain
R	recommended strain
L <sub>f</sub> +	strain inducing a loss of mass conform to the norm ( <i>Fagus sylvatica</i> )
L <sub>p</sub> +	strain inducing a loss of mass conform to the norm ( <i>Pinus sylvestris</i> )
L <sub>f</sub> -	strain with an insufficient action on wood ( <i>Fagus sylvatica</i> )
L <sub>p</sub> -	strain with an insufficient action on wood ( <i>Pinus sylvestris</i> )
nt	not tested for this method

### FOOD

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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 R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype abony	LMG 18222	NCTC 6017	P R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype enteritidis	LMG 10395	ATCC 13076	P R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype typhimurium	LMG 14933	ATCC 14028	P R

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

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

**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 R
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	P R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N R

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

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

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

<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N 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 R
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228	N R

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

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

**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 R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N 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 R
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228	N R

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

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

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

<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017	P R
<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

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

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

**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	NR
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	NR
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC 6538P	PR
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923	PR
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228	NR

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

<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	NR
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	PR
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	PR
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC 14028	PR

**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	PR
<i>Enterococcus faecium</i>	LMG 11423	ATCC 19434	PR
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	NR
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC 19435	NR

**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	PR
<i>Bacillus coagulans</i>	LMG 6326	ATCC 7050	NR
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC 6633	NR
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	NR
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	NR

**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	PR
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	NR

**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	PR
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	NR
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	PR
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	PR
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC 700728	PR



**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 R
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC 33291	P R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Proteus mirabilis</i>	LMG 3257	ATCC 29906	N R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923	N R

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

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

**pr 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 - not yet published)**

<i>Aspergillus niger</i>	IHEM 3766	ATCC 16404	P M nt
<i>Bacillus cereus</i>	LMG 8221	ATCC 11778	P N M
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC 6633	N M
<i>Campylobacter coli</i>	LMG 21266	ATCC 43478	P M
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC 33291	P M
<i>Candida albicans</i>	IHEM 3731	ATCC 10231	P M nt
<i>Clostridium perfringens</i>	LMG 11264	ATCC 13124	P M
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N M
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	P N M
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P N M
<i>Lactobacillus sakei</i> subsp. <i>sakei</i>	LMG 9468	ATCC 15521	P M
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC 19435	P M
<i>Listeria monocytogenes</i>	LMG 21263	ATCC 19111	P M
<i>Listeria monocytogenes</i>	LMG 21264	ATCC 13932	P M
<i>Pediococcus damnosus</i>	LMG 11484	ATCC 29358	P M
<i>Penicillium hirsutum</i> (⇒ <i>P. cyclopium</i> )	IHEM 19610	ATCC 16025	P M nt
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N M
<i>Saccharomyces cerevisiae</i>	IHEM 3961	ATCC 9763	P M nt
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC 13076	P M
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC 14028	P M
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC 6538P	P M
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923	P N M
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228	N M
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype 0:8	LMG 7899	ATCC 9610	P M

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

**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 R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P R
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC 700728	P R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N R

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

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

**Mossel p. 416-418: Test for *Enterococcus* species (1995)**

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

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

<i>Bacillus cereus</i>	LMG 8221	ATCC 11778	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	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>Pediococcus damnosus</i>	LMG 11484	ATCC 29358	P R

**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 R
<i>Pseudomonas aeruginosa</i>	LMG 1242	ATCC 10145	P R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	P R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923	N R

**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 R
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	P R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N R

**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 R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017	P R
<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

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

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

**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 R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	P R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC 14028	P R

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

**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 R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R

**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 R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N 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 R
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228	N R

**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 R
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	P R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	P R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N R

**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 R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC 700728	P R

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

<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017	P R
<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

**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 R
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC 33291	P R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Proteus mirabilis</i>	LMG 3257	ATCC 29906	N R
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923	N R

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

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

**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 R
<i>Proteus mirabilis</i>	LMG 3257	ATCC 29906	N R
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853	N R
<i>Vibrio parahaemolyticus</i>	LMG 2850	ATCC 17802	P R

**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 R
<i>Bacillus coagulans</i>	LMG 6326	ATCC 7050	N R
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC 6633	N R
<i>Escherichia coli</i>	LMG 8063	ATCC 8739	N R
<i>Escherichia coli</i>	LMG 8223	ATCC 25922	N R

## **PHARMACOPOEIA**

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**European Pharmacopoeia 2.6.1: Sterility test (2001)**

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

## **DISINFECTANTS AND ANTISEPTICS**

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

<i>Aspergillus niger</i>	IHEM 3766	ATCC 16404	M
<i>Candida albicans</i>	IHEM 3731	ATCC 10231	M

**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 niger</i>	IHEM 3766	ATCC 16404	M
<i>Candida albicans</i>	IHEM 3731	ATCC 10231	M
<i>Saccharomyces cerevisiae</i>	IHEM 3961	ATCC 9763	M
<i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	IHEM 17987	DSM 70487	M

**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 niger</i>	IHEM 3766	ATCC 16404	M
<i>Candida albicans</i>	IHEM 3731	ATCC 10231	M

**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	M nt
<i>Staphylococcus aureus</i> (⇒ <i>S. aureus</i> subsp. <i>aureus</i> )	LMG 10640	ATCC 9144	M nt
<i>Streptococcus faecium</i> (⇒ <i>Enterococcus hirae</i> )	LMG 10274	ATCC 10541	M nt
<i>Bacillus subtilis</i> (⇒ <i>B. subtilis</i> subsp. <i>spizizenii</i> )	LMG 8197	ATCC 6633	M nt
<i>Candida albicans</i>	IHEM 3740	CIP 1180-79	M
<i>Penicillium verrucosum</i> var. <i>cyclopium</i> (⇒ <i>P. aurantiogriseum</i> var. <i>aurantiogriseum</i> )	IHEM 18001	CIP 1186-79	M

## **WOOD**

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**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	M L <sub>p</sub> -
<i>Coniophora puteana</i>	MUCL 30714		R L <sub>p</sub> +
<i>Coniophora puteana</i>	MUCL 31046		R L <sub>p</sub> +
<i>Coriolus versicolor</i>	MUCL 11665	CTB 863 A	M L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 28407		R L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 38412		R L <sub>f</sub> +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	M L <sub>p</sub> -
<i>Lentinus lepideus</i>	MUCL 40109		R L <sub>p</sub> +
<i>Poria placenta</i>	MUCL 20569	FPRL 280	M L <sub>p</sub> +
<i>Poria placenta</i>	MUCL 30789		R L <sub>p</sub> +
<i>Serpula lacrymans</i>	MUCL 34572		R L <sub>p</sub> +

**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>Coriolus versicolor</i>	MUCL 11665	CTB 863 A	M L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 28407		R L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 38412		R L <sub>f</sub> +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	M L <sub>p</sub> -
<i>Poria placenta</i>	MUCL 20569	FPRL 280	M L <sub>p</sub> +
<i>Poria placenta</i>	MUCL 30789		R L <sub>p</sub> +
<i>Serpula lacrymans</i>	MUCL 34572		R L <sub>p</sub> +

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

<i>Coniophora puteana</i>	MUCL 11662	BAM Ebw. 15	M L <sub>p</sub> -
<i>Coniophora puteana</i>	MUCL 30714		R L <sub>p</sub> +
<i>Coniophora puteana</i>	MUCL 31046		R L <sub>p</sub> +
<i>Coriolus versicolor</i>	MUCL 11665	CTB 863 A	M L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 28407		R L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 38412		R L <sub>f</sub> +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	M L <sub>p</sub> -
<i>Poria placenta</i>	MUCL 20569	FPRL 280	M L <sub>p</sub> +
<i>Poria placenta</i>	MUCL 30789		R L <sub>p</sub> +

**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	M L <sub>p</sub> -
<i>Coniophora puteana</i>	MUCL 30714		R L <sub>p</sub> +
<i>Coniophora puteana</i>	MUCL 31046		R L <sub>p</sub> +
<i>Coriolus versicolor</i>	MUCL 11665	CTB 863 A	M L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 28407		R L <sub>f</sub> +
<i>Coriolus versicolor</i>	MUCL 38412		R L <sub>f</sub> +
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109	M L <sub>p</sub> -
<i>Lentinus lepideus</i>	MUCL 40109		R L <sub>p</sub> +
<i>Pleurotus ostreatus</i>	MUCL 31535		R L <sub>f</sub> +
<i>Pleurotus ostreatus</i>	MUCL 38041		R L <sub>f</sub> +
<i>Poria placenta</i>	MUCL 20569	FPRL 280	R L <sub>p</sub> +
<i>Poria placenta</i>	MUCL 30789		R L <sub>p</sub> +
<i>Serpula lacrymans</i>	MUCL 34572		R L <sub>p</sub> +





## PART 2: STRAINS

Strains are sorted by species name. After the species name, you will find the acronym and the accession number of the strain in BCCM collections and the acronym and accession number of the equivalent culture as quoted in the norm.

### BACTERIA

<i>Bacillus cereus</i>	LMG 8221	ATCC 11778
<i>Bacillus coagulans</i>	LMG 6326	ATCC 7050
<i>Bacillus subtilis</i> subsp. <i>spizizenii</i>	LMG 8197	ATCC 6633
<i>Campylobacter coli</i>	LMG 21266	ATCC 43478
<i>Campylobacter jejuni</i> subsp. <i>jejuni</i>	LMG 18455	ATCC 33291
<i>Citrobacter freundii</i>	LMG 21265	ATCC 43864
<i>Clostridium perfringens</i>	LMG 11264	ATCC 13124
<i>Clostridium sporogenes</i>	LMG 10143	ATCC 19404
<i>Enterococcus faecalis</i>	LMG 7937	ATCC 19433
<i>Enterococcus faecium</i>	LMG 11423	ATCC 19434
<i>Enterococcus hirae</i> ( $\Rightarrow$ <i>Streptococcus faecium</i> )	LMG 10274	ATCC 10541
<i>Escherichia coli</i>	LMG 8063	ATCC 8739
<i>Escherichia coli</i>	LMG 8223	ATCC 25922
<i>Escherichia coli</i> serotype O157:H7	LMG 21756	ATCC 700728
<i>Lactobacillus sakei</i> subsp. <i>sakei</i>	LMG 9468	ATCC 15521
<i>Lactococcus lactis</i> subsp. <i>lactis</i>	LMG 6890	ATCC 19435
<i>Listeria innocua</i>	LMG 11387	ATCC 33090
<i>Listeria ivanovii</i>	LMG 11388	ATCC 19119
<i>Listeria monocytogenes</i>	LMG 13305	NCTC 11994
<i>Listeria monocytogenes</i>	LMG 21263	ATCC 19111
<i>Listeria monocytogenes</i>	LMG 21264	ATCC 13932
<i>Pediococcus damnosus</i>	LMG 11484	ATCC 29358
<i>Proteus mirabilis</i>	LMG 3257	ATCC 29906
<i>Pseudomonas aeruginosa</i>	LMG 1242	ATCC 10145
<i>Pseudomonas aeruginosa</i>	LMG 6395	ATCC 27853
<i>Pseudomonas aeruginosa</i>	LMG 8029	ATCC 9027
<i>Pseudomonas aeruginosa</i>	LMG 10639	CIP A22
<i>Rhodococcus equi</i>	LMG 18452	ATCC 6939
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>abony</i>	LMG 18222	NCTC 6017
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>enteritidis</i>	LMG 10395	ATCC 13076
<i>Salmonella choleraesuis</i> subsp. <i>choleraesuis</i> serotype <i>typhimurium</i>	LMG 14933	ATCC 14028
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8064	ATCC 6538
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8195	ATCC 6538P
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 8224	ATCC 25923
<i>Staphylococcus aureus</i> subsp. <i>aureus</i>	LMG 10640	ATCC 9144
<i>Staphylococcus epidermidis</i>	LMG 10273	ATCC 12228
<i>Strepococcus faecium</i> ( $\Rightarrow$ <i>Enterococcus hirae</i> )	LMG 10274	ATCC 10541
<i>Vibrio parahaemolyticus</i>	LMG 2850	ATCC 17802
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype O:8	LMG 7899	ATCC 9610
<i>Yersinia enterocolitica</i> subsp. <i>enterocolitica</i> serotype O:3	LMG 15558	CIP 81.41

## FUNGI AND YEAST

<i>Aspergillus niger</i>	IHEM 3766	ATCC 16404
<i>Candida albicans</i>	IHEM 3731	ATCC 10231
<i>Candida albicans</i>	IHEM 3740	CIP 1180-79
<i>Coniophora puteana</i>	MUCL 11662	BAM Ebw. 15
<i>Coniophora puteana</i>	MUCL 30714	
<i>Coniophora puteana</i>	MUCL 31046	
<i>Coriolus versicolor</i>	MUCL 11665	CTB 863 A
<i>Coriolus versicolor</i>	MUCL 28407	
<i>Coriolus versicolor</i>	MUCL 38412	
<i>Gloeophyllum trabeum</i>	MUCL 11353	BAM Ebw. 109
<i>Lentinus lepideus</i>	MUCL 40109	
<i>Penicillium aurantiogriseum</i> var. <i>aurantiogriseum</i> ( $\Rightarrow$ <i>P. verrucosum</i> var. <i>cyclopium</i> )	IHEM 18001	CIP 1186-79
<i>Penicillium hirsutum</i> ( $\Rightarrow$ <i>P. cyclopium</i> )	IHEM 19610	ATCC 16025
<i>Penicillium verrucosum</i> var. <i>cyclopium</i> ( $\Rightarrow$ <i>P. aurantiogriseum</i> var. <i>aurantiogriseum</i> )	IHEM 18001	CIP 1186-79
<i>Pleurotus ostreatus</i>	MUCL 31534	
<i>Pleurotus ostreatus</i>	MUCL 31535	
<i>Pleurotus ostreatus</i>	MUCL 38041	
<i>Poria placenta</i>	MUCL 20569	FPRL 280
<i>Poria placenta</i>	MUCL 30789	
<i>Saccharomyces cerevisiae</i>	IHEM 3961	ATCC 9763
<i>Saccharomyces cerevisiae</i> var. <i>diastaticus</i>	IHEM 17987	DSM 70487
<i>Serpula lacrymans</i>	MUCL 34572	

