



CultiControl

Technical Sheet 01

CultiControl freeze-dried microorganisms

Packaging: 1 vial containing 5 pellets

Non-enumerated CFU

Applications: Culture purposes, QC of ID devices, QC of AST devices

BioSafety Levels valid for our ATCC® derived microorganisms

The Liofilchem® CultiControl freeze-dried microorganisms have a BioSafety level (BSL) of 1 or 2.

BSL 1 organisms have no, or low, risk to individuals and communities. BSL 1 organisms may cause disease in individuals with immune systems that are suppressed or compromised.

BSL 2 organisms pose a moderate risk of individual infection, but low risk of community infection.

Liofilchem adheres to the BSL level designation as determined by the Reference Culture Collection from which the microorganism strain was obtained. Responsibility for safe handling of biological agents ultimately rests with the user. All infectious materials should be handled under the supervision of a competent and knowledgeable microbiologist.

BioSafety Levels valid for our NCTC® derived microorganisms

<https://www.phe-culturecollections.org.uk/orderinginfo/conditionsofsupplyofmicrobialpathogensafety.aspx>

Recommended Growth Methods

Primary growth on a nonselective agar medium is preferred. Primary growth in a fluid medium should only occur in special instances or when recommended. Because of the manipulations required during hydration, it is difficult to obtain purity of a lyophilized strain in a fluid medium. A contaminant may completely overgrow and obscure the presence of the lyophilized strain.

A list of microorganisms and relevant Recommended Growth Method is showed at page 4.

Method 1

Tryptic Soy Agar (Soybean Casein Digest Agar), nonselective Sheep Blood Agar, Standard Methods Agar (Plate Count Agar) or Nutrient Agar - 35°C in aerobic atmosphere – 24 to 48 hours.

Method 2

Nonselective Sheep Blood Agar - 35°C in aerobic atmosphere – 24 to 72 hours. Growth of some species such as *Streptococcus* and *Arcanobacterium* are enhanced by CO₂ enrichment of the incubation atmosphere. 5% CO₂ is recommended for the culture of *Streptococcus pneumoniae* and other streptococcal species of the viridians group.

Method 3

Chocolate Agar - 35°C in 5% to 7% CO₂ – 24 to 48 hours.

Method 4

Anaerobic Blood Agar 35°C in Anaerobic Environment – 48 to 72 hours.

Some obligate anaerobes may require 5 to 7 days to demonstrate sufficient growth.

Fresh prepared Nutrient Agar, Tryptic Soy Agar (Soybean Casein Digest Agar), Standard Methods Agar (Plate Count Agar) are appropriate alternatives for some *Clostridium* species together with an additional period (24 hours) of incubation.

Method 5

Sabouraud Dextrose Emmons Agar - 25°C in aerobic atmosphere – 2 to 7 days.

Nonselective Sheep Blood Agar is an appropriate alternative.

Nutrient Agar, Tryptic Soy Agar, Potato Dextrose Agar and Standard Plate Count Agar are appropriate alternatives together with an additional period (24 hours) of incubation.

Sabouraud Dextrose Emmons Agar is the best medium for growth of *Saccharomyces* sp.

Method 6

Chocolate Agar - 35°C in Microaerophilic Environment – 48 to 72 hours.

Method 7

Lowenstein Jensen Agar or Middlebrook Agar - 35°C in 5 to 7% CO₂ or aerobic atmosphere – up to one week. *M. fortuitum* subsp. *fortuitum*, *M. peregrinum* and *M. smegmatis* will also grow on Tryptic Soy Agar (Soybean Casein Digest Agar) as well as Lowenstein Jensen and Middlebrook Agar but additional incubation time may be required.

Method 8

Buffered Charcoal Yeast Extract Agar - 35°C in aerobic atmosphere – 3 to 5 days.

Method 9

V Agar or Chocolate Agar - 35°C in 5% to 7% CO₂– 48 hours.

Method 10

Rehydrate in sterile Brain Heart Infusion Broth, Tryptic Soy Broth (Soybean Casein Digest Agar) or 0.85% Saline. Rehydration with water may result in decreased or no recovery. Grow on Tryptic Soy Agar (Soybean Casein Digest Agar) - 35°C in aerobic atmosphere – 24 to 48 hrs. *Vibrio* sp. also grows on Marine Agar.

Method 11

The primary growth medium is MRS (Man, Rogosa, Sharpe) Broth. Incubate at 35°C in aerobic atmosphere for 48 hours. Transfer to either Columbia CNA with Sheep Blood or Tryptic Soy Agar with Sheep Blood. Incubate at 35°C in 5 to 7% CO₂ for 48 hrs. A few *Lactobacilli* species, such as *L. fermentum*, *L. paracasei* subsp. *paracasei*, *L. plantarum*, *L. rhamnosus*, and *L. sakei*, do not need to be started in Lactobacilli MRS broth. They may be plated directly to Columbia CNA with Sheep Blood or Tryptic Soy Agar with Sheep Blood and incubated at 35°C in 5 to 7% CO₂ for 48 hours.

Method 12

Potato Dextrose Agar - 55 C in aerobic atmosphere – 24 to 48 hours.

Method 13

Rehydrate 1 pellet of *M. hominis* or *Ureaplasma* sp. in 10B Arginine Broth. Make serial dilutions (for example, 1:10, 1:100, 1:1000, 1:10,000). Incubate at 35 C in aerobic atmosphere. As soon as the Arginine vial turns pink (24 to 48 hours), sub 0.1 mL of broth to A8 Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate mycoplasma at 35 C in 5 to 7% CO₂. Incubate ureaplasma at 35°C anaerobically for up to 96 hours. In order to see colonies, examine plates microscopically.

Method 14

Rehydrate 1 pellet of *M. pneumoniae* in SP4 Glucose Broth. Make serial dilutions (for example, 1:10, 1:100, 1:1000, 1:10,000). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (1-4 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 5 to 15 days. In order to see colonies, examine plates microscopically.

Method 15

Rehydrate 1 pellet of *M. orale* in 10B Arginine Broth. Make serial dilutions (for example, 1:10, 1:100, 1:1000). Incubate at 35°C, in aerobic atmosphere. As soon as the broth turns from yellow to pink (48 to 72 hours), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate plates at 35°C in anaerobic conditions for 3 to 6 days. In order to see colonies, examine plates microscopically.

Method 16

Leeming Notman Agar - 30°C in aerobic atmosphere – 72 hours.

Method 17

Rehydrate 1 pellet of *M. gallisepticum* in SP4 Glucose Broth. Make serial dilutions (for example, 1:2, 1:4). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (4 days to 2 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 3 days to 2 weeks. In order to see colonies, examine plates microscopically.

Method 18

Rehydrate 1 pellet of *M. hyorhinis* in SP4 Glucose Broth. Make serial dilutions (for example, 1:10, 1:100, 1:1000). Incubate at 35°C in aerobic atmosphere. As soon as the broth turns from red to yellow (4 days to 2 weeks), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 2 to 10 days. In order to see colonies, examine plates microscopically.

Method 19

Rehydrate 1 pellet of *M. synoviae* in SP4 Glucose Broth. Make serial dilutions (for example, 1:2, 1:4, 1:8, 1:16, 1:32). Incubate at 35°C in 5 to 10% CO₂ for 7 days. After 7 days (no color change will be noted), sub 0.2 mL of broth to SP4 Glucose Agar and streak for isolation. Do not use cotton swab or wooden shaft. Incubate at 35°C in CO₂ atmosphere, preferably in a candle jar, for 1 to 4 weeks. In order to see colonies, examine plates microscopically.

Method 20

Chocolate agar, Sheep Blood Agar, Tryptic Soy Agar, Bordet Gengou Agar with 15% Defibrinated Sheep Blood - 35°C in aerobic atmosphere – 24 to 48 hours. Standard Methods (Plate Count Agar) or Nutrient Agar are appropriate alternatives together with an additional period (24 hours) of incubation.

Method 21

Chocolate or Bordet Gengou Agar with 15% Defibrinated Sheep Blood - 35°C in aerobic atmosphere – 2 days to one week. *B. pertussis*, and *B. pertussis*, require Bordet Gengou Agar with 15% Defibrinated Sheep Blood.

Method 22

Prepare ISF (modified Infant Soy Formula) Broth using the following steps: 1) fill tubes with 10 mL Infant Soy Formula, 2) place a four-penny nail in each tube, and 3) sterilize the broth. Infant Soy Formula may be purchased at a grocery store. A four-penny nail is approximately 1.5 inches or 38 mm in length. It should contain steel or iron.

Inoculate ISF Broth with one pellet. Make two dilutions, 1:10 and 1:100. Plate undiluted sample and plate the 1:10 and 1:100 dilutions. It is necessary to plate the diluted samples because at higher concentrations the colonies are pin-point which makes colony characteristics difficult to see. Grow at 55°C in anaerobic conditions for 48 hours. The broth will turn grey, indicating growth. Sub with a swab to Sulfite Agar. Sulfite Agar is used for detecting thermophilic anaerobes which produce sulfite. Incubate the agar in anaerobic environment at 55°C for 7 days.

Method 23

Inoculate Mycoplasma Broth with a pellet. Prepare serial dilutions of 1:10, 1:100, and 1:1000 using the broth. Incubate at 35°C for 48 hours. Then plate 0.2 mL of the turbid broth culture to Mycoplasma Agar. Incubate agar in 5 to 7% CO₂ at 35° for 3 to 7 days. Do not use cotton swabs or wooden sticks. In order to see colonies, examine plates microscopically.

Method 24

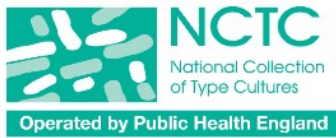
Sheep Blood Agar supplemented with Pyridoxal - 35° C in 5% to 7% CO₂ – 24 to 48 hours.



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WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Acinetobacter baumannii</i>	derived from	ATCC® BAA-747™*	89141		✓	2	1	up to the 4th	532
	<i>Acinetobacter baumannii</i>	derived from	ATCC® 19606™*	89174		✓	2	1	up to the 4th	532
	<i>Acinetobacter baumannii</i>	derived from	NCTC 12156						1st	
	<i>Actinomyces odontolyticus</i>	derived from	ATCC® 17929™*	89114		✓	2	4	up to the 4th	532
	<i>Actinomyces odontolyticus</i>	derived from	NCTC 9935						1st	
00063	<i>Aeromonas hydrophila</i>	derived from	ATCC® 7966™*	89119		✓	2	2	up to the 4th	532
00063	<i>Aeromonas hydrophila</i>	derived from	NCTC 8049						1st	
	<i>Aeromonas hydrophila</i>	derived from	ATCC® 35654™*	89169		✓	2	2	up to the 4th	532
	<i>Aeromonas hydrophila</i>	derived from	NCTC 12902						1st	
	<i>Aggregatibacter aphrophilus</i>	derived from	ATCC® 7901™*	89091		✓	2	3	up to the 4th	532
00053	<i>Aspergillus brasiliensis</i>	derived from	ATCC® 16404™*	89021		✓	1	5	up to the 4th	532
00053	<i>Aspergillus brasiliensis</i>	derived from	NCPF 2275	70021			2		1st	730
00001	<i>Bacillus cereus</i>	derived from	ATCC® 11778™*	89022		✓	1	1	up to the 4th	532
00001	<i>Bacillus cereus</i>	derived from	NCTC 10320						1st	
	<i>Bacillus cereus</i>	derived from	ATCC® 10876™*	89155		✓	1	1	up to the 4th	532
	<i>Bacillus cereus</i>	derived from	NCTC 7464						1st	
00003	<i>Bacillus subtilis subsp. spizizenii</i>	derived from	ATCC® 6633™*	89023		✓	1	1	up to the 4th	532
00003	<i>Bacillus subtilis subsp. spizizenii</i>	derived from	NCTC 10400	70023			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
	<i>Bacteroides fragilis</i>	derived from	ATCC® 25285™*	89078		✓	2	4	up to the 4th	532
	<i>Bacteroides fragilis</i>	derived from	NCTC 9343						1st	
	<i>Bacteroides fragilis</i>	derived from	ATCC® 23745™*	89113		✓	2	4	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Bacteroides fragilis</i>	derived from	NCTC 10581						1st	
	<i>Bacteroides ovatus</i>	derived from	ATCC® 8483™*	89111		✓	2	4	up to the 4th	532
	<i>Bacteroides ovatus</i>	derived from	NCTC 11153						1st	
	<i>Bacteroides ovatus</i>	derived from	ATCC® BAA-1296™*	89193		✓	2	4	up to the 4th	532
	<i>Bacteroides thetaiotaomicron</i>	derived from	ATCC® 29741™*	89079		✓	2	4	up to the 4th	532
	<i>Bordetella bronchiseptica</i>	derived from	ATCC® 4617™*	89139		✓	2	15	up to the 4th	532
	<i>Bordetella bronchiseptica</i>	derived from	NCTC 8344						1st	
	<i>Burkholderia cepacia</i>	derived from	ATCC® 25416™*	89147		✓	2	1	up to the 4th	532
	<i>Burkholderia cepacia</i>	derived from	NCTC 10743						1st	
	<i>Burkholderia cepacia</i>	derived from	ATCC® 25608™*	89166		✓	2	1	up to the 4th	532
00005	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	ATCC® 33291™*	89086		✓	2	6	up to the 4th	252
00005	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	NCTC 13367					Columbia blood agar, 48 h, 37°C, microaerophilic	1st	
	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	ATCC® 33560™*	89145		✓	2	6	up to the 4th	252
	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	NCTC 11351						1st	
00156	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	ATCC® 29428™*	89167		✓	2	6	up to the 4th	252
00156	<i>Campylobacter jejuni subsp. jejuni</i>	derived from	NCTC 11322						1st	
00054	<i>Candida albicans</i>	derived from	ATCC® 10231™*	89024		✓	1	5	up to the 4th	532
00054	<i>Candida albicans</i>	derived from	NCPF 3179	70024			2		1st	730
	<i>Candida albicans</i>	derived from	ATCC® 90028™*	89072		✓	1	5	up to the 4th	532
	<i>Candida albicans</i>	derived from	NCPF 3939						1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Candida albicans</i>	derived from	ATCC® 18804™*	89177		✓	1	5	up to the 4th	532
	<i>Candida albicans</i>	derived from	ATCC® 64124™*	89178		✓	1	5	up to the 4th	532
	<i>Candida albicans</i>	derived from	ATCC® 14053™*	89183		✓	1	5	up to the 4th	532
	<i>Candida krusei</i>	derived from	ATCC® 14243™*	89098		✓	1	5	up to the 4th	532
	<i>Candida parapsilosis</i>	derived from	ATCC® 22019™*	89071		✓	1	5	up to the 4th	532
	<i>Candida tropicalis</i>	derived from	ATCC® 750™*	89097		✓	1	5	up to the 4th	532
	<i>Citrobacter freundii</i>	derived from	ATCC® 43864™*	89146		✓	1	1	up to the 4th	532
	<i>Citrobacter freundii</i>	derived from	ATCC® 8090™*	89159		✓	1	1	up to the 4th	532
	<i>Citrobacter freundii</i>	derived from	NCTC 9750						1st	
	<i>Clostridium difficile</i>	derived from	ATCC® 9689™*	89090	produces cytotoxin	✓	2	4	up to the 4th	532
	<i>Clostridium difficile</i>	derived from	NCTC 11209		produces cytotoxin				1st	
	<i>Clostridium histolyticum</i>	derived from	ATCC® 19401™*	89112		✓	2	4	up to the 4th	532
	<i>Clostridium histolyticum</i>	derived from	NCTC 503						1st	
00007	<i>Clostridium perfringens</i>	derived from	ATCC® 13124™*	89053		✓	2	4	up to the 4th	532
00007	<i>Clostridium perfringens</i>	derived from	NCTC 8237	70053			2	blood agar, 37°C, strict anaerobe	1st	730
	<i>Clostridium sordellii</i>	derived from	ATCC® 9714™*	89059		✓	2	4	up to the 4th	532
	<i>Clostridium sordellii</i>	derived from	NCTC 13356						1st	
00008	<i>Clostridium sporogenes</i>	derived from	ATCC® 19404™*	89095		✓	1	4	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00008	<i>Clostridium sporogenes</i>	derived from	NCTC 532						1st	
	<i>Cronobacter muytjensii</i>	derived from	ATCC® 51329™*	89158		✓	1	1	up to the 4th	532
00214	<i>Cronobacter sakazakii</i>	derived from	ATCC® 29544™*	89138	formerly <i>Enterobacter sakazakii</i>	✓	1	1	up to the 4th	532
00214	<i>Cronobacter sakazakii</i>	derived from	NCTC 11467		formerly <i>Enterobacter sakazakii</i>		2		1st	
	<i>Eikenella corrodens</i>	derived from	ATCC® BAA-1152™*	89196		✓	2	3	up to the 4th	532
	<i>Enterobacter aerogenes</i>	derived from	ATCC® 13048™*	89156		✓	1	1	up to the 4th	532
	<i>Enterobacter aerogenes</i>	derived from	NCTC 10006						1st	
	<i>Enterobacter cloacae subsp. cloacae</i>	derived from	ATCC® 49141™*	89200		✓	1	1	up to the 4th	532
	<i>Enterobacter cloacae subsp. cloacae</i>	derived from	ATCC® BAA-1143™*	89065	control strain for the AmpC disk test; strong positive	✓	2	1	up to the 4th	532
	<i>Enterococcus casseliflavus</i>	derived from	ATCC® 700327™*	89195		✓	1	1	up to the 4th	532
00009	<i>Enterococcus faecalis</i>	derived from	ATCC® 19433™*	89025		✓	2	1	up to the 4th	532
00009	<i>Enterococcus faecalis</i>	derived from	NCTC 775						1st	
00087	<i>Enterococcus faecalis</i>	derived from	ATCC® 29212™*	89026		✓	2	1	up to the 4th	532
00087	<i>Enterococcus faecalis</i>	derived from	NCTC 12697	70026			2	Columbia blood agar, 24-48 h, 37°C, aerobic	1st	730
00210	<i>Enterococcus faecalis</i>	derived from	ATCC® 33186™*	89115		✓	2	1	up to the 4th	532
00210	<i>Enterococcus faecalis</i>	derived from	NCTC 13763						1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Enterococcus faecalis</i>	derived from	ATCC® 49532™*	89066	high level Gentamicin-resistant and Streptomycin-sensitive	✓	2	1	up to the 4th	532
	<i>Enterococcus faecalis</i>	derived from	ATCC® 49533™*	89067	high level Gentamicin-sensitive and Streptomycin-resistant	✓	2	1	up to the 4th	532
00085	<i>Enterococcus faecalis</i>	derived from	ATCC® 51299™*	89173	Vancomycin resistant and high level aminoglycoside s, vanB	✓	2	1	up to the 4th	532
00085	<i>Enterococcus faecalis</i>	derived from	NCTC 13379		Vancomycin resistant and high level aminoglycoside s, vanB				1st	
	<i>Enterococcus faecium</i>	derived from	ATCC® 51559™*	89117		✓	2	1	up to the 4th	532
	<i>Enterococcus faecium</i>	derived from	ATCC® 6057™*	89152		✓	2	1	up to the 4th	532
00010	<i>Enterococcus faecium</i>	derived from	ATCC® 19434™*	89171		✓	2	1	up to the 4th	532
00010	<i>Enterococcus faecium</i>	derived from	NCTC 7171						1st	
	<i>Enterococcus faecium</i>	derived from	ATCC® BAA-2319™*	89172	vanA resistance	✓	2	1	up to the 4th	532
	<i>Erysipelothrix rhusiopathiae</i>	derived from	ATCC® 19414™*	89187		✓	2	2	up to the 4th	532
	<i>Erysipelothrix rhusiopathiae</i>	derived from	NCTC 8163						1st	
	<i>Escherichia coli</i>	derived from	ATCC® 11303™*	89184		✓	1	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00013	<i>Escherichia coli</i>	derived from	ATCC® 25922™*	89027		✓	1	1	up to the 4th	532
00013	<i>Escherichia coli</i>	derived from	NCTC 12241	70027			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
00012	<i>Escherichia coli</i>	derived from	ATCC® 8739™*	89028		✓	1	1	up to the 4th	532
00012	<i>Escherichia coli</i>	derived from	NCTC 12923	70028			2	1	1st	730
	<i>Escherichia coli</i>	derived from	ATCC® 35218™*	89163	beta lactamase producer	✓	1	1	up to the 4th	532
	<i>Escherichia coli</i>	derived from	NCTC 11954		beta lactamase producer				1st	
	<i>Fluoribacter bozemanæ</i>	derived from	ATCC® 33217™*	89157		✓	2	8	up to the 4th	532
	<i>Fluoribacter bozemanæ</i>	derived from	NCTC 11368						1st	
	<i>Fusobacterium nucleatum subsp. nucleatum</i>	derived from	ATCC® 25586™*	89118		✓	2	4	up to the 4th	532
	<i>Gardnerella vaginalis</i>	derived from	ATCC® 14018™*	89099		✓	2	9	up to the 4th	532
	<i>Gardnerella vaginalis</i>	derived from	NCTC 10287						1st	
	<i>Geobacillus stearothermophilus</i>	derived from	ATCC® 7953™*	89203		✓	1	1	up to the 4th	532
	<i>Geobacillus stearothermophilus</i>	derived from	NCTC 10007						1st	
	<i>Haemophilus haemolyticus</i>	derived from	ATCC® 33390™*	89123		✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	ATCC® 49766™*	89076		✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 12975	70076			2	Chocolate blood agar, 48 h, 37°C, requires carbon dioxide	1st	730
	<i>Haemophilus influenzae</i>	derived from	ATCC® 49247™*	89077		✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 12699						1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Haemophilus influenzae</i>	derived from	ATCC® 19418™*	89160		✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 4560						1st	
	<i>Haemophilus influenzae</i>	derived from	ATCC® 10211™*	89120	type b; beta lactamase negative	✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 13377		type b; beta lactamase negative				1st	
	<i>Haemophilus influenzae</i>	derived from	ATCC® 33533™*	89124	type b; beta lactamase producer	✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 8468						1st	730
	<i>Haemophilus influenzae</i>	derived from	ATCC® 9007™*	89142	type c	✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 8469		type c				1st	
	<i>Haemophilus influenzae</i>	derived from	ATCC® 33391™*	89176		✓	2	3	up to the 4th	532
	<i>Haemophilus influenzae</i>	derived from	NCTC 8143						1st	
	<i>Issatchenkia orientalis</i>	derived from	ATCC® 6258™*	89073		✓	1	5	up to the 4th	532
	<i>Klebsiella pneumoniae</i>	derived from	ATCC® BAA-1144™*	89150	control strain for the AmpC disk test; weak positive	✓	2	1	up to the 4th	532
	<i>Klebsiella pneumoniae</i>	derived from	ATCC® BAA-1705™*	89088	Modified Hodge Test (MHT) positive control	✓	2	1	up to the 4th	532
	<i>Klebsiella pneumoniae</i>	derived from	ATCC® BAA-1706™*	89087	Modified Hodge Test (MHT) negative control	✓	2	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Klebsiella pneumoniae</i>	derived from	ATCC® BAA-2146™*	89069	New Delhi metallo-beta-lactamase (NDM-1) positive	✓	2	1	up to the 4th	532
	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	ATCC® 700603™*	89070	ESBL positive	✓	2	1	up to the 4th	532
	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	NCTC 13368	70070	ESBL positive		2	Nutrient agar, 24-48 h, 37°C, aerobic	1st	730
00097	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	ATCC® 13883™*	89089		✓	2	1	up to the 4th	532
00097	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	NCTC 9633						1st	
00192	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	ATCC® 4352™*	89192		✓	2	1	up to the 4th	532
00192	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	NCTC 13635						1st	
	<i>Klebsiella pneumoniae subsp. pneumoniae</i>	derived from	ATCC® 31488™*	89199		✓	2	1	up to the 4th	532
00098	<i>Lactobacillus acidophilus</i>	derived from	ATCC® 4356™*	89080		✓	1	11	up to the 4th	532
00098	<i>Lactobacillus acidophilus</i>	derived from	NCTC 12980						1st	
	<i>Lactobacillus paracasei subsp. paracasei</i>	derived from	ATCC® BAA-52™*	89055		✓	1	11	up to the 4th	532
	<i>Lactobacillus fermentum</i>	derived from	ATCC® 9338™*	89100		✓	1	11	up to the 4th	532
	<i>Lactobacillus leichmannii</i>	derived from	ATCC® 4797™*	89081		✓	1	11	up to the 4th	532
00016	<i>Lactococcus lactis subsp. lactis</i>	derived from	ATCC® 19435™*	89082		✓	1	2	up to the 4th	532
00016	<i>Lactococcus lactis subsp. lactis</i>	derived from	NCTC 6681						1st	
00180	<i>Legionella pneumophila subsp. fraseri</i>	derived from	ATCC® 33156™*	89151		✓	2	8	up to the 4th	532
00180	<i>Legionella pneumophila subsp. fraseri</i>	derived from	NCTC 11233						1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00107	<i>Legionella pneumophila subsp. pneumophila</i>	derived from	ATCC® 33152™*	89052		✓	2	8	up to the 4th	532
00107	<i>Legionella pneumophila subsp. pneumophila</i>	derived from	NCTC 11192	70052			2	Buffered Charcoal Yeast Extract agar (BCYE), 48 h, 37° C, requires carbon dioxide	1st	730
	<i>Listeria grayi</i>	derived from	ATCC® 25401™*	89101		✓	1	1	up to the 4th	532
	<i>Listeria grayi</i>	derived from	NCTC 10812						1st	
00017	<i>Listeria innocua</i>	derived from	ATCC® 33090™*	89029		✓	1	1	up to the 4th	532
00017	<i>Listeria innocua</i>	derived from	NCTC 11288						1st	
00018	<i>Listeria ivanoviisubsp. ivanovii</i>	derived from	ATCC® 19119™*	89030		✓	2	1	up to the 4th	532
00018	<i>Listeria ivanoviisubsp. ivanovii</i>	derived from	NCTC 11846						1st	
00020	<i>Listeria monocytogenes</i>	derived from	ATCC® 19111™*	89031	serotype 1	✓	2	1	up to the 4th	532
00020	<i>Listeria monocytogenes</i>	derived from	NCTC 13627		serotype 1				1st	
	<i>Listeria monocytogenes</i>	derived from	ATCC® 19115™*	89051	serotype 4b	✓	2	1	up to the 4th	532
00021	<i>Listeria monocytogenes</i>	derived from	ATCC® 13932™*	89085	serotype 4b	✓	2	1	up to the 4th	532
00021	<i>Listeria monocytogenes</i>	derived from	NCTC 10527						1st	
	<i>Listeria monocytogenes</i>	derived from	ATCC® 7644™*	89060		✓	2	1	up to the 4th	532
	<i>Listeria monocytogenes</i>	derived from	NCTC 13372						1st	
00109	<i>Listeria monocytogenes</i>	derived from	ATCC® 35152™*	89148		✓	2	1	up to the 4th	532
00109	<i>Listeria monocytogenes</i>	derived from	NCTC 7973						1st	
	<i>Listeria monocytogenes</i>	derived from	ATCC® BAA-751™*	89143		✓	2	1	up to the 4th	532
	<i>Listeria monocytogenes</i>	derived from	ATCC® 15313™*	89188	non-hemolytic on sheep blood	✓	2	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Listeria monocytogenes</i>	derived from	NCTC 10357		non-hemolytic on sheep blood				1st	
	<i>Micrococcus luteus</i>	derived from	ATCC® 10240™*	89096		✓	1	1	up to the 4th	532
	<i>Micrococcus luteus</i>	derived from	NCTC 7743						1st	
00111	<i>Micrococcus luteus</i>	derived from	ATCC® 4698™*	89102		✓	1	1	up to the 4th	532
00111	<i>Micrococcus luteus</i>	derived from	NCTC 2665						1st	
	<i>Moraxella (Branhamella) catarrhalis</i>	derived from	ATCC® 25238™*	89103		✓	1	2	up to the 4th	532
	<i>Moraxella (Branhamella) catarrhalis</i>	derived from	NCTC 11020						1st	
	<i>Neisseria gonorrhoeae</i>	derived from	ATCC® 19424™*	89074		✓	2	3	up to the 4th	532
	<i>Neisseria gonorrhoeae</i>	derived from	NCTC 8375						1st	
	<i>Neisseria gonorrhoeae</i>	derived from	ATCC® 31426™*	89075	beta lactamase producer	✓	2	3	up to the 4th	532
	<i>Neisseria gonorrhoeae</i>	derived from	ATCC® 49226™*	89104		✓	2	3	up to the 4th	532
	<i>Neisseria gonorrhoeae</i>	derived from	NCTC 12700						1st	
	<i>Neisseria gonorrhoeae</i>	derived from	ATCC® 49981™*	89122	Penicillin resistant	✓	2	3	up to the 4th	532
	<i>Neisseria meningitidis</i>	derived from	ATCC® 13090™*	89164	serogroup B	✓	2	3	up to the 4th	532
	<i>Neisseria meningitidis</i>	derived from	NCTC 10026		serogroup B				1st	
	<i>Nocardia brasiliensis</i>	derived from	ATCC® 19296™*	89189		✓	2	1	up to the 4th	532
	<i>Nocardia brasiliensis</i>	derived from	NCTC 11294						1st	
	<i>Peptostreptococcus anaerobius</i>	derived from	ATCC® 27337™*	89165		✓	1	4	up to the 4th	532
	<i>Peptostreptococcus anaerobius</i>	derived from	NCTC 11460						1st	
	<i>Plesiomonas shigelloides</i>	derived from	ATCC® 14029™*	89094		✓	2	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Plesiomonas shigelloides</i>	derived from	NCTC 10360						1st	
	<i>Porphyromonas gingivalis</i>	derived from	ATCC® 33277™*	89162		✓	2	4	up to the 4th	532
	<i>Porphyromonas gingivalis</i>	derived from	NCTC 11834						1st	
	<i>Prevotella melaninogenica</i>	derived from	ATCC® 25845™*	89134		✓	2	4	up to the 4th	532
	<i>Prevotella melaninogenica</i>	derived from	NCTC 12963						1st	
	<i>Propionibacterium acnes</i>	derived from	ATCC® 11827™*	89135		✓	1	4	up to the 4th	532
	<i>Proteus hauseri</i>	derived from	ATCC® 13315™*	89190		✓	2	1	up to the 4th	532
	<i>Proteus hauseri</i>	derived from	NCTC 4175						1st	
	<i>Proteus mirabilis</i>	derived from	ATCC® 25933™*	89032		✓	2	1	up to the 4th	532
	<i>Proteus mirabilis</i>	derived from	ATCC® 12453™*	89049		✓	2	1	up to the 4th	532
00023	<i>Proteus mirabilis</i>	derived from	ATCC® 29906™*	89083		✓	2	1	up to the 4th	532
00023	<i>Proteus mirabilis</i>	derived from	NCTC 11938	70083			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
	<i>Proteus mirabilis</i>	derived from	ATCC® 35659™*	89105		✓	2	1	up to the 4th	532
	<i>Proteus mirabilis</i>	derived from	ATCC® 43071™*	89106		✓	2	1	up to the 4th	532
	<i>Proteus vulgaris</i>	derived from	ATCC® 6380™*	89107		✓	2	1	up to the 4th	532
	<i>Providencia stuartii</i>	derived from	ATCC® 33672™*	89125		✓	1	1	up to the 4th	532
	<i>Pseudomonas aeruginosa</i>	derived from	ATCC® 15442™*	89109	Pyocyanin not produced	✓	2	1	up to the 4th	532
	<i>Pseudomonas aeruginosa</i>	derived from	NCTC 13359		Pyocyanin not produced				1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00024	<i>Pseudomonas aeruginosa</i>	derived from	ATCC® 10145™*	89108		✓	2	1	up to the 4th	532
00024	<i>Pseudomonas aeruginosa</i>	derived from	NCTC 10332						1st	
00025	<i>Pseudomonas aeruginosa</i>	derived from	ATCC® 27853™*	89033		✓	2	1	up to the 4th	532
00025	<i>Pseudomonas aeruginosa</i>	derived from	NCTC 12903	70033			2	Nutrient agar, 24-48 h, 37°C, aerobic	1st	730
00026	<i>Pseudomonas aeruginosa</i>	derived from	ATCC® 9027™*	89034		✓	2	1	up to the 4th	532
00026	<i>Pseudomonas aeruginosa</i>	derived from	NCTC 12924	70034			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
00115	<i>Pseudomonas fluorescens</i>	derived from	ATCC® 13525™*	89110		✓	1	1	up to the 4th	532
00115	<i>Pseudomonas fluorescens</i>	derived from	NCTC 10038						1st	
00028	<i>Rhodococcus equi</i>	derived from	ATCC® 6939™*	89035	recommended for CAMP test for <i>Listeria monocytogenes</i>	✓	2	2	up to the 4th	532
00028	<i>Rhodococcus equi</i>	derived from	NCTC 1621		recommended for CAMP test for <i>Listeria monocytogenes</i>				1st	
00058	<i>Saccharomyces cerevisiae</i>	derived from	ATCC® 9763™*	89036		✓	1	5	up to the 4th	532
00058	<i>Saccharomyces cerevisiae</i>	derived from	NCTC 10716						1st	
	<i>Salmonella enterica subsp. arizonae</i>	derived from	ATCC® 13314™*	89154		✓	2	1	up to the 4th	532
	<i>Salmonella enterica subsp. arizonae</i>	derived from	NCTC 8297						1st	
	<i>Salmonella enterica subsp. enterica serovar Abony</i>	derived from	NCTC 6017						1st	730
00030	<i>Salmonella enterica subsp. enterica serovar Enteritidis</i>	derived from	ATCC® 13076™*	89084	group D	✓	2	1	up to the 4th	532



WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00030	<i>Salmonella enterica subsp. enterica serovar Enteritidis</i>	derived from	NCTC 12694	70084	group D		2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
	<i>Salmonella enterica subsp. enterica serovar Paratyphi</i>	derived from	ATCC® 9150™*	89161	group A; H2S negative	✓	2	1	up to the 4th	532
00031	<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	derived from	ATCC® 14028™*	89037		✓	2	1	up to the 4th	532
00031	<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	derived from	NCTC 12023	70037			2	Nutrient agar, 24-48 h, 37°C, aerobic	1st	730
00121	<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	derived from	ATCC® 13311™*	89054		✓	2	1	up to the 4th	532
00121	<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	derived from	NCTC 74						1st	
	<i>Salmonella enterica subsp. enterica serovar Typhimurium</i>	derived from	ATCC® 49416™*	89197	highly mutable; recommended for Ames test	✓	2	1	up to the 4th	532
	<i>Salmonella enterica subsp. enterica serovar Hillingdon</i>	derived from	ATCC® 9184™*	89185		✓	2	1	up to the 4th	532
	<i>Serratia marcescens</i>	derived from	ATCC® 8100™*	89121		✓	1	1	up to the 4th	532
	<i>Serratia marcescens</i>	derived from	NCTC 13382	70121					1st	730
	<i>Serratia marcescens</i>	derived from	ATCC® 14756™*	89191	pigmented	✓	1	1	up to the 4th	532
	<i>Shigella boydii</i>	derived from	ATCC® 9207™*	89179	serotype 1	✓	2	1	up to the 4th	532
00126	<i>Shigella flexneri</i>	derived from	ATCC® 12022™*	89038	serotype 2b	✓	2	1	up to the 4th	532
00126	<i>Shigella flexneri</i>	derived from	NCTC 12698		serotype 2b				1st	
	<i>Shigella flexneri</i>	derived from	ATCC® 9199™*	89198	serotype 1a	✓	2	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Shigella sonnei</i>	derived from	ATCC® 9290™*	89180		✓	2	1	up to the 4th	532
	<i>Shigella sonnei</i>	derived from	ATCC® 25931™*	89058		✓	2	1	up to the 4th	532
	<i>Staphylococcus aureus</i>	derived from	ATCC® 33862™*	89042	recommended for CAMP test	✓	2	1	up to the 4th	532
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 49476™*	89181		✓	2	1	up to the 4th	532
00035	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 9144™*	89182		✓	2	1	up to the 4th	532
00035	<i>Staphylococcus aureus subsp. aureus</i>	derived from	NCTC 6571						1st	
00131	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 29213™*	89041		✓	2	1	up to the 4th	532
00131	<i>Staphylococcus aureus subsp. aureus</i>	derived from	NCTC 12973						1st	
00034	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 25923™*	89040		✓	2	1	up to the 4th	532
00034	<i>Staphylococcus aureus subsp. aureus</i>	derived from	NCTC 12981	70040			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 33591™*	89116	methicillin resistant	✓	2	1	up to the 4th	532
00211	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 43300™*	89043	methicillin resistant; mec A positive	✓	2	1	up to the 4th	532
00211	<i>Staphylococcus aureus subsp. aureus</i>	derived from	NCTC 13373	70043	methicillin resistant; mec A positive		2	Columbia blood agar, 24 h, 37°C, aerobic	1st	730
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 700699™*	89093	Methicillin resistant; Mu50; reduced Vancomycin susceptibility	✓	2	1	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 700698™*	89092	Methicillin resistant; GRD MIC Test Strip control	✓	2	1	up to the 4th	532
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® 19095™*	89137		✓	2	1	up to the 4th	532
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	NCTC 10655						1st	
	<i>Staphylococcus aureus subsp. aureus</i>	derived from	ATCC® BAA-44™*	89170	Methicillin resistant	✓	2	1	up to the 4th	532
00193	<i>Staphylococcus aureus</i>	derived from	ATCC® 6538™*	89044		✓	2	1	up to the 4th	532
00193	<i>Staphylococcus aureus</i>	derived from	NCTC 10788	70044			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
	<i>Staphylococcus aureus</i>	derived from	NCTC 12493						1st	730
00036	<i>Staphylococcus epidermidis</i>	derived from	ATCC® 12228™*	89045		✓	1	1	up to the 4th	532
00036	<i>Staphylococcus epidermidis</i>	derived from	NCTC 13360	70045			2	Nutrient agar, 24 h, 37°C, aerobic	1st	730
00132	<i>Staphylococcus epidermidis</i>	derived from	ATCC® 14990™*	89202		✓	1	1	up to the 4th	532
00132	<i>Staphylococcus epidermidis</i>	derived from	NCTC 11047						1st	
	<i>Staphylococcus haemolyticus</i>	derived from	ATCC® 29970™*	89126		✓	2	1	up to the 4th	532
	<i>Staphylococcus haemolyticus</i>	derived from	NCTC 11042						1st	
00159	<i>Staphylococcus saprophyticus</i>	derived from	ATCC® 15305™*	89153		✓	1	1	up to the 4th	532
00159	<i>Staphylococcus saprophyticus</i>	derived from	NCTC 7292						1st	
	<i>Staphylococcus xylosus</i>	derived from	ATCC® 29971™*	89133		✓	2	1	up to the 4th	532
	<i>Staphylococcus xylosus</i>	derived from	NCTC 11043						1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Stenotrophomonas maltophilia</i>	derived from	ATCC® 13637™*	89149		✓	1	1	up to the 4th	532
	<i>Stenotrophomonas maltophilia</i>	derived from	NCTC 10257						1st	
	<i>Stenotrophomonas maltophilia</i>	derived from	ATCC® 17666™*	89194		✓	1	1	up to the 4th	532
	<i>Streptococcus agalactiae</i>	derived from	ATCC® 13813™*	89046	group B; non-hemolytic in absence of CAMP Factor	✓	2	2	up to the 4th	532
	<i>Streptococcus agalactiae</i>	derived from	NCTC 8181	70046	group B; non-hemolytic in absence of CAMP Factor		2	Columbia blood agar, 24-48 h, 37°C, aerobic	1st	730
	<i>Streptococcus anginosus</i>	derived from	ATCC® 33397™*	89127	group G; type 1	✓	2	2	up to the 4th	532
	<i>Streptococcus anginosus</i>	derived from	NCTC 10713		group G; type 1				1st	
00133	<i>Streptococcus bovis</i>	derived from	ATCC® 33317™*	89061		✓	1	2	up to the 4th	532
00133	<i>Streptococcus bovis</i>	derived from	NCTC 8177						1st	
	<i>Streptococcus dysgalactiae subsp. equisimilis</i>	derived from	ATCC® 12388™*	89128	group C	✓	2	2	up to the 4th	532
	<i>Streptococcus mitis</i>	derived from	ATCC® 6249™*	89129		✓	2	2	up to the 4th	532
	<i>Streptococcus mutans</i>	derived from	ATCC® 25175™*	89062		✓	1	2	up to the 4th	532
	<i>Streptococcus mutans</i>	derived from	NCTC 10449						1st	
	<i>Streptococcus pneumoniae</i>	derived from	ATCC® 27336™*	89063		✓	2	2	up to the 4th	532
	<i>Streptococcus pneumoniae</i>	derived from	ATCC® 49619™*	89047	low level penicillin resistance by oxacillin test	✓	2	2	up to the 4th	532

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
	<i>Streptococcus pneumoniae</i>	derived from	NCTC 12977	70047	low level penicillin resistance by oxacillin test		2	Columbia blood agar, 24-48 h, 37°C, aerobic, requires CO2	1st	730
	<i>Streptococcus pneumoniae</i>	derived from	ATCC® 700671™*	89175		✓	2	2	up to the 4th	532
	<i>Streptococcus pyogenes</i>	derived from	ATCC® 19615™*	89048	group A	✓	2	2	up to the 4th	532
	<i>Streptococcus pyogenes</i>	derived from	NCTC 12696	70048	group A			Columbia blood agar, 24-48 h, 37°C, aerobic	1st	730
	<i>Streptococcus pyogenes</i>	derived from	ATCC® 49399™*	89130	group A	✓	2	2	up to the 4th	532
	<i>Streptococcus salivarius</i>	derived from	ATCC® 13419™*	89131		✓	1	2	up to the 4th	532
00134	<i>Streptococcus salivarius subsp. thermophilus</i>	derived from	ATCC® 19258™*	89186		✓	1	2	up to the 4th	532
00134	<i>Streptococcus salivarius subsp. thermophilus</i>	derived from	NCTC 12958						1st	
	<i>Streptococcus sanguinis</i>	derived from	ATCC® 10556™*	89064		✓	2	2	up to the 4th	532
	<i>Streptococcus sanguinis</i>	derived from	NCTC 7863						1st	
	<i>Trichophyton mentagrophytes</i>	derived from	ATCC® 9533™*	89140		✓	2	5	up to the 4th	532
	<i>Vibrio alginolyticus</i>	derived from	ATCC® 17749™*	89144		✓	1	10	up to the 4th	532
	<i>Vibrio alginolyticus</i>	derived from	NCTC 12160						1st	
00037	<i>Vibrio parahaemolyticus</i>	derived from	ATCC® 17802™*	89056		✓	2	10	up to the 4th	532
00037	<i>Vibrio parahaemolyticus</i>	derived from	NCTC 10903						1st	
00038	<i>Yersinia enterocolitica subsp. enterocolitica</i>	derived from	ATCC® 9610™*	89050	biovar 1; serogroup O:8	✓	2	1	up to the 4th	532
00038	<i>Yersinia enterocolitica subsp. enterocolitica</i>	derived from	NCTC 12982		biovar 1; serogroup O:8				1st	

WDCM	Description			CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method	passages	Shelf life (days)
00160	<i>Yersinia enterocolitica subsp. enterocolitica</i>	derived from	ATCC® 23715™*	89168	biotype 1; serotype 8	✓	2	1	up to the 4th	532
00160	<i>Yersinia enterocolitica subsp. enterocolitica</i>	derived from	NCTC 10598		biotype 1; serotype 8				1st	
	Storage temperature for all CultiControl items	2-8 °C								
	Custom tariff for all CultiControl items	30029050								
										
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	NCTC® is a registered trademark of Public Health England. Liofilchem is licensed to use these trademarks and to sell products derived from NCTC® cultures.									
	Biosafety Responsibility: It is the responsibility of the customer to ensure that their facilities comply with biosafety regulations for their own country.									
	The CultiControl range is considered Hazardous for air freights only. Their shipment to certain Countries may include separate, special packs with relevant additional costs.									