

ATCC[®] derived 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.

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 I pellet of *M. hominis* or *Ureaplasma* sp. in 10B Arginine Broth. Make serial dilutions (for example, 1:10, 1:100, 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, 1:10,000). 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). 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% CO_2 at 35°C 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				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
	Acinetobacter baumannii	derived from	ATCC® 19606 [™] *	89174		√	2	1
	Acinetobacter baumannii	derived from	ATCC [®] BAA-747™*	89141		√	2	1
	Actinomyces odontolyticus	derived from	ATCC® 17929™*	89114		√	2	4
	Aeromonas hydrophila	derived from	ATCC® 35654 [™] *	89169		√	2	2
63	Aeromonas hydrophila	derived from	ATCC® 7966™*	89119		√	2	2
	Aggregatibacter aphrophilus	derived from	ATCC® 7901™*	89091		√	2	3
53	Aspergillus brasiliensis	derived from	ATCC® 16404™*	89021		√	1	5
	Bacillus cereus	derived from	ATCC® 10876 TM *	89155		√	1	1
1	Bacillus cereus	derived from	ATCC® 11778™*	89022		√	1	1
3	Bacillus subtilis subsp. spizizenii	derived from	ATCC® 6633™*	89023		√	1	1
	Bacteroides fragilis	derived from	ATCC® 23745™*	89113		√	2	4
	Bacteroides fragilis	derived from	ATCC® 25285™*	89078		√	2	4
	Bacteroides ovatus	derived from	ATCC® 8483™*	89111		√	2	4
	Bacteroides ovatus	derived from	ATCC [®] BAA-1296 [™] *	89193		√	2	4
	Bacteroides thetaiotaomicron	derived from	ATCC® 29741™*	89079		√	2	4
	Bordetella bronchiseptica	derived from	ATCC® 4617™*	89139		√	2	15
	Burkholderia cepacia	derived from	ATCC® 25416 TM *	89147		√	2	1
	Burkholderia cepacia	derived from	ATCC® 25608 TM *	89166		√	2	1
156	Campylobacter jejuni subsp. jejuni	derived from	ATCC® 29428 [™] *	89167		√	2	6
5	Campylobacter jejuni subsp. jejuni	derived from	ATCC® 33291™*	89086		√	2	6
	Campylobacter jejuni subsp. jejuni	derived from	ATCC® 33560 [™] *	89145		√	2	6
54	Candida albicans	derived from	ATCC® 10231™*	89024		√	1	5
	Candida albicans	derived from	ATCC® 14053™*	89183		√	1	5
	Candida albicans	derived from	ATCC® 18804™*	89177		√	1	5
	Candida albicans	derived from	ATCC® 64124 [™] *	89178		√	1	5
	Candida albicans	derived from	ATCC® 90028 TM *	89072		√	1	5
	Candida krusei	derived from	ATCC® 14243™*	89098		√	1	5
	Candida parapsilosis	derived from	ATCC® 22019 TM *	89071		√	1	5
	Candida tropicalis	derived from	ATCC® 750™*	89097		√	1	5
	Citrobacter freundii	derived from	ATCC® 43864 [™] *	89146		√	1	1
	Citrobacter freundii	derived from	ATCC® 8090™*	89159		√	1	1
	Clostridium difficile	derived from	ATCC® 9689™*	89090	produces cytotoxin	√	2	4
	Clostridium histolyticum	derived from	ATCC® 19401™*	89112		√	2	4
7	Clostridium perfringens	derived from	ATCC® 13124™*	89053		√	2	4
	Clostridium sordellii	derived from	ATCC® 9714™*	89059		√	2	4
8	Clostridium sporogenes	derived from	ATCC® 19404™*	89095		√	1	4
	Cronobacter muytjensii	derived from	ATCC® 51329™*	89158		√	1	1
214	Cronobacter sakazakii	derived from	ATCC® 29544 TM *	89138	formerly Enterobacter sakazakii	√	1	1
	Eikenella corrodens	derived from	ATCC [®] BAA-1152 [™] *	89196	,	√	2	3
175	Enterobacter aerogenes	derived from	ATCC® 13048™*	89156		√	1	1
	Enterobacter cloacae subsp. cloacae	derived from	ATCC® 49141™*	89200		√	1	1
	' Enterobacter cloacae subsp. cloacae	derived from	ATCC® BAA-1143™*	89065	control strain for the AmpC disk test; strong positive	√	2	1
	Enterococcus casseliflavus	derived from	ATCC® 700327 TM *	89195		√	1	1
9	Enterococcus faecalis	derived from	ATCC® 19433™*	89025		√	2	1
87	Enterococcus faecalis	derived from	ATCC® 29212™*	89026		1	2	1

WDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
210	Enterococcus faecalis	derived from	ATCC® 33186 TM *	89115		√	2	1
	Enterococcus faecalis	derived from	ATCC® 49532 TM *	89066	high level Gentamicin-resistant and Streptomycin-sensitive	√	2	1
	Enterococcus faecalis	derived from	ATCC [®] 49533™*	89067	high level Gentamicin-sensitive and Streptomycin-resistant	√	2	1
85	Enterococcus faecalis	dorived from	ATCC® 51299™*	89173	Vancomycin resistant and	1	2	1
10	Enterococcus faecium		ATCC® 19434™*	89173	high level aminoglycosides, vanB	 ✓	2	1
10	Enterococcus faecium		ATCC® 51559™*	89117		▼	2	1
	Enterococcus faecium		ATCC® 6057™*	89152		 ✓	2	1
	Enterococcus faecium		ATCC® BAA-2319 TM *	89132	vanA resistance	√	2	1
	Erysipelothrix rhusiopathiae		ATCC® 19414™*	89172	vanA resistance	√ √	2	2
	, , , ,					√	1	1
10	Escherichia coli		ATCC® 11303™* ATCC® 25922™*	89184 89027		•	1	1
13	Escherichia coli				hata la stances ana duran	1	1	1
10	Escherichia coli		ATCC® 35218™*	89163	beta lactamase producer		1	1
12	Escherichia coli		ATCC® 8739™*	89028		✓	•	· ·
	Fluoribacter bozemanae		ATCC® 33217™*	89157		✓	2	8
	Fusobacterium nucleatum subsp. nucleatum		ATCC® 25586™*	89118		√	2	4
	Gardnerella vaginalis		ATCC® 14018™*	89099		✓	2	9
	Geobacillus stearothermophilus		ATCC® 7953™*	89203		√	1	1
	Haemophilus haemolyticus		ATCC® 33390™*	89123		√	2	3
	Haemophilus influenzae		ATCC® 10211™*	89120	type b; beta lactamase negative	√	2	3
	Haemophilus influenzae		ATCC® 19418™*	89160		√	2	3
	Haemophilus influenzae		ATCC® 33391™*	89176		√	2	3
	Haemophilus influenzae		ATCC® 33533™*	89124	type b; beta lactamase producer	√	2	3
	Haemophilus influenzae		ATCC [®] 49247™*	89077		√	2	3
	Haemophilus influenzae		ATCC® 49766™*	89076		✓	2	3
	Haemophilus influenzae		ATCC [®] 9007™*	89142	type c	√	2	3
	Issatchenkia orientalis	derived from	ATCC® 6258™*	89073		√	1	5
	Klebsiella pneumoniae	derived from	ATCC [®] BAA-1144 [™] *	89150	control strain for the AmpC disk test; weak positive	√	2	1
	Klebsiella pneumoniae	derived from	ATCC [®] BAA-1705 [™] *	89088	Modified Hodge Test (MHT) positive control	√	2	1
	Klebsiella pneumoniae	derived from	ATCC® BAA-1706 TM *	89087	Modified Hodge Test (MHT) negative control	√	2	1
	Klebsiella pneumoniae		ATCC® BAA-2146 TM *	89069	New Delhi metallo-beta-lactamase (NDM-1) positive	✓	2	1
97	Klebsiella pneumoniae subsp. pneumoniae		ATCC [®] 13883™*	89089		√	2	1
	Klebsiella pneumoniae subsp. pneumoniae		ATCC® 31488™*	89199		√	2	1
192	Klebsiella pneumoniae subsp. pneumoniae		ATCC [®] 4352 [™] *	89192		\checkmark	2	1
	Klebsiella pneumoniae subsp. pneumoniae		ATCC® 700603™*	89070	ESBL positive	√	2	1
98	Lactobacillus acidophilus		ATCC® 4356™*	89080		√	1	11
	Lactobacillus fermentum		ATCC [®] 9338™*	89100		√	1	11
	Lactobacillus leichmannii		ATCC® 4797™*	89081		√	1	11
	Lactobacillus paracasei subsp. paracasei		ATCC [®] BAA-52 [™] *	89055		√	1	11
16	Lactococcus lactissubsp. lactis	derived from	ATCC® 19435™*	89082		√	1	2
180	Legionella pneumophila subsp. fraseri	derived from	ATCC® 33156 TM *	89151		√	2	8

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NDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
107	Legionella pneumophila subsp. pneumophila	derived from	ATCC® 33152™*	89052		√	2	8
	Listeria grayi	derived from	ATCC® 25401™*	89101		√	1	1
17	Listeria innocua	derived from	ATCC® 33090 TM *	89029		√	1	1
18	Listeria ivanoviisubsp.ivanovii	derived from	ATCC® 19119™*	89030		√	2	1
21	Listeria monocytogenes	derived from	ATCC® 13932™*	89085	serotype 4b	√	2	1
	Listeria monocytogenes	derived from	ATCC® 15313™*	89188	non-hemolytic on sheep blood	√	2	1
20	Listeria monocytogenes	derived from	ATCC® 19111™*	89031	serotype 1	√	2	1
	Listeria monocytogenes	derived from	ATCC® 19115™*	89051	serotype 4b	√	2	1
109	Listeria monocytogenes		ATCC [®] 35152 [™] *	89148	/1	√	2	1
	Listeria monocytogenes	derived from	ATCC® 7644™*	89060		√	2	1
	Listeria monocytogenes	derived from	ATCC [®] BAA-751 [™] *	89143		√	2	1
	Micrococcus luteus		ATCC® 10240 TM *	89096		1	1	1
111	Micrococcus luteus		ATCC® 4698™*	89102		1	1	1
	Moraxella (Branhamella) catarrhalis		ATCC® 25238 TM *	89103		1	1	2
	Neisseria gonorrhoeae		ATCC® 19424 TM *	89074		1	2	3
	Neisseria gonorrhoeae		ATCC® 31426 TM *	89075	beta lactamase producer	1	2	3
	Neisseria gonorrhoeae		ATCC® 49226 TM *	89104	beta lacamase producer	1	2	3
	Neisseria gonorrhoeae		ATCC® 49981 [™] *	89122	Penicillin resistant		2	3
	Neisseria meningitidis		ATCC® 13090 [™] *	89164	serogroup B		2	3
	Nocardia brasiliensis		ATCC® 19296™*	89189	scrogroup b		2	1
	Peptostreptococcus anaerobius		ATCC® 27337 [™] *	89165			1	4
	Plesiomonas shigelloides		ATCC® 14029™*	89094			2	1
	Porphyromonas gingivalis		ATCC® 33277™*	89162			2	4
	Prevotella melaninogenica		ATCC® 25845™*	89134			2	4
	Propionibacterium acnes		ATCC® 23843™ ATCC® 11827™*	89135		V 	1	4
	Proteus hauseri		ATCC® 11827 **** ATCC® 13315™*	89190			2	4
	Proteus mirabilis		ATCC® 13313™*	89049		√ √	2	1
			ATCC® 12453™*	89032			2	1
22	Proteus mirabilis					•	2	1
23	Proteus mirabilis		ATCC® 29906™*	89083		1		1
	Proteus mirabilis		ATCC® 35659™*	89105		1	2	
	Proteus mirabilis		ATCC® 43071™*	89106		√	2	1
	Proteus vulgaris		ATCC® 6380 TM *	89107		1	2	1
	Providencia stuartii		ATCC® 33672 TM *	89125		√	1	1
24	Pseudomonas aeruginosa		ATCC® 10145 TM *	89108		√	2	1
	Pseudomonas aeruginosa		ATCC® 15442™*	89109	Pyocyanin not produced	√	2	1
25	Pseudomonas aeruginosa		ATCC® 27853™*	89033		√	2	1
26	Pseudomonas aeruginosa		ATCC [®] 9027 [™] *	89034		√	2	1
115	Pseudomonas fluorescens	derived from	ATCC® 13525™*	89110		√	1	1
28	Rhodococcus equi		ATCC® 6939™*	89035	recommended for CAMP test forListeria monocytogenes	√	2	2
58	Saccharomyces cerevisiae		ATCC [®] 9763 [™] *	89036		√	1	5
	Salmonella enterica subsp. arizonae	derived from	ATCC® 13314™*	89154		√	2	1
30	Salmonella enterica subsp. enterica serovar Enteritidis	derived from	ATCC® 13076™*	89084	group D	√	2	1
	Salmonella enterica subsp. enterica serovar Hillingdon	derived from	ATCC [®] 9184 [™] *	89185		√	2	1

WDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
	Salmonella enterica subsp. enterica serovar							
	Paratyphi	derived from	ATCC® 9150™*	89161	group A; H2S negative	√	2	1
121	Salmonella enterica subsp. enterica serovar Typhimurium	dorived from	ATCC® 13311™*	89054		1	2	1
121	Salmonella enterica subsp. enterica serovar	derived itolii	AICC® 15511	09034		V	Ζ	1
31	Typhimurium	derived from	ATCC® 14028™*	89037		1	2	1
	Salmonella enterica subsp. enterica serovar				highly mutable;			
	Typhimurium	derived from	ATCC [®] 49416 [™] *	89197	recommended for Ames test	√	2	1
	Serratia marcescens	derived from	ATCC® 14756™*	89191	pigmented	√	1	1
	Serratia marcescens	derived from	ATCC® 8100 TM *	89121		√	1	1
	Shigella boydii	derived from	ATCC [®] 9207 [™] *	89179	serotype 1	√	2	1
126	Shigella flexneri	derived from	ATCC® 12022™*	89038	serotype 2b	√	2	1
	Shigella flexneri	derived from	ATCC [®] 9199™*	89198	serotype 1a	√	2	1
	Shigella sonnei	derived from	ATCC® 25931™*	89058		\checkmark	2	1
	Shigella sonnei	derived from	ATCC [®] 9290 [™] *	89180		√	2	1
	Staphylococcus aureus	derived from	ATCC® 33862™*	89042	recommended for CAMP test	√	2	1
193	Staphylococcus aureus	derived from	ATCC [®] 6538 [™] *	89044		√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 19095™*	89137		√	2	1
34	Staphylococcus aureus subsp. aureus	derived from	ATCC® 25923™*	89040		√	2	1
131	Staphylococcus aureus subsp. aureus	derived from	ATCC® 29213™*	89041		√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 33591™*	89116	methicillin resistant	√	2	1
211	Staphylococcus aureus subsp. aureus	derived from	ATCC® 43300™*	89043	methicillin resistant; mec A positive	√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 49476™*	89181		√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 700698™*	89092	Methicillin resistant; GRD MIC Test Strip control	√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 700699™*	89093	Methicillin resistant; Mu50; reduced Vancomycin susceptibility	√	2	1
35	Staphylococcus aureus subsp. aureus	derived from	ATCC [®] 9144 [™] *	89182		\checkmark	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC [®] BAA-44™*	89170	Methicillin resistant	√	2	1
36	Staphylococcus epidermidis	derived from	ATCC® 12228 TM *	89045		√	1	1
132	Staphylococcus epidermidis	derived from	ATCC® 14990™*	89202		√	1	1
	Staphylococcus haemolyticus	derived from	ATCC® 29970 TM *	89126		√	2	1
159	Staphylococcus saprophyticus	derived from	ATCC® 15305™*	89153		√	1	1
	Staphylococcus xylosus	derived from	ATCC® 29971™*	89133		√	2	1
	Stenotrophomonas maltophilia	derived from	ATCC® 13637™*	89149		√	1	1
	Stenotrophomonas maltophilia	derived from	ATCC® 17666 TM *	89194		√	1	1
					group B; non-hemolytic in absence			
	Streptococcus agalactiae		ATCC® 13813™*	89046	of CAMP Factor	√	2	2
	Streptococcus anginosus		ATCC® 33397™*	89127	group G; type 1	\checkmark	2	2
133	Streptococcus bovis		ATCC® 33317 [™] *	89061		√	1	2
	Streptococcus dysgalactiae subsp. equisimilis		ATCC® 12388 TM *	89128	group C	\checkmark	2	2
	Streptococcus mitis		ATCC® 6249™*	89129		√	2	2
	Streptococcus mutans		ATCC® 25175™*	89062		√	1	2
	Streptococcus pneumoniae	derived from	ATCC® 27336™*	89063		√	2	2
	Streptococcus pneumoniae	derived from	ATCC® 49619™*	89047	low level penicillin resistance by oxacillin test	√	2	2
	Streptococcus pneumoniae	derived from	ATCC® 700671™*	89175		√	2	2

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WDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
	Streptococcus pyogenes	derived from	ATCC® 19615™*	89048	group A	√	2	2
	Streptococcus pyogenes	derived from	ATCC® 49399™*	89130	group A	√	2	2
	Streptococcus salivarius	derived from	ATCC® 13419 [™] *	89131	¥	√	1	2
134	Streptococcus salivarius subsp. thermophilus	derived from	ATCC® 19258™*	89186		√	1	2
	Streptococcus sanguinis	derived from	ATCC® 10556™*	89064		√	2	2
	Trichophyton mentagrophytes	derived from	ATCC [®] 9533™*	89140		√	2	5
	Vibrio alginolyticus	derived from	ATCC® 17749™*	89144		√	1	10
37	Vibrio parahaemolyticus	derived from	ATCC® 17802™*	89056		√	2	10
160	Yersinia enterocolitica subsp. enterocolitica	derived from	ATCC [®] 23715 [™] *	89168	biotype 1; serotype 8	√	2	1
38	Yersinia enterocolitica subsp. enterocolitica	derived from	ATCC [®] 9610 [™] *	89050	biovar 1; serogroup O:8	√	2	1



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