

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 pneumonia*e 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, 1:1000, 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). 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 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		1	2	1
	Acinetobacter baumannii	derived from	ATCC® BAA-747™*	89141		1	2	1
	Actinomyces odontolyticus	derived from	ATCC® 17929™*	89114		✓	2	4
	Aeromonas hydrophila		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™*	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 TM *	89113		✓	2	4
	Bacteroides fragilis	derived from	ATCC® 25285 TM *	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 TM *	89079		✓	2	4
	Bordetella bronchiseptica	derived from	ATCC® 4617 TM *	89139		✓	2	15
	Burkholderia cepacia	derived from	ATCC® 25416 TM *	89147			2	1
	Burkholderia cepacia		ATCC® 25608 TM *	89166		√	2	1
156	Campylobacter jejuni subsp. jejuni		ATCC® 29428 TM *	89167		· ·	2	6
5	Campylobacter jejuni subsp. jejuni		ATCC® 33291 TM *	89086		√ ·	2	6
	Campylobacter jejuni subsp. jejuni		ATCC® 33560 TM *	89145		· ·	2	6
54	Candida albicans		ATCC® 10231 TM *	89024		<u>,</u>	1	5
	Candida albicans		ATCC® 14053 TM *	89183		· ·	1	5
	Candida albicans		ATCC® 18804 TM *	89177		<u>,</u>	1	5
	Candida albicans		ATCC® 64124 TM *	89178		<u> </u>	1	5
	Candida albicans		ATCC® 90028 TM *	89072		<u>,</u>	1	5
	Candida krusei		ATCC® 14243 TM *	89098		<u>√</u>	1	5
	Candida parapsilosis		ATCC® 22019 TM *	89071		<u> </u>	1	5
	Candida tropicalis		ATCC® 750 TM *	89097		√	1	5
	Citrobacter freundii		ATCC® 43864 TM *	89146		√	1	1
	Citrobacter freundii		ATCC® 8090 TM *	89159		√	1	1
	Clostridium difficile		ATCC® 9689 TM *	89090	produces cytotoxin	√	2	Δ
	Clostridium histolyticum		ATCC® 19401™*	89112	produces cytotoxiii	√	2	4
7	Clostridium perfringens		ATCC® 13124 TM *	89053		√	2	4
,	Clostridium sordellii		ATCC® 9714 TM *	89059		√	2	4
8	Clostridium sporogenes		ATCC® 19404 TM *	89095		<u>√</u>	1	4
0	Cronobacter muytjensii		ATCC® 51329 TM *	89158		<u>√</u>	1	1
214	Cronobacter sakazakii		ATCC® 29544 TM *	89138	formerly Enterobacter sakazakii	√	1	1
217	Eikenella corrodens		ATCC® 29344 ATCC® BAA-1152™*	89196	TOTTICITY ETICTODACTOL SARAZARII	√	2	3
175	Enterobacter aerogenes		ATCC® 13048™*	89156		√	1	1
1/3	Enterobacter aerogenes Enterobacter cloacae subsp. cloacae		ATCC® 49141 TM *	89200		√	1	1
	Emeropacier cioacae subsp. Cioacae	uenveu nom	/11 CCW 43141 ····	03200	control strain for the AmpC disk test;	Y	I	1
	Enterobacter cloacae subsp. cloacae	derived from	ATCC® BAA-1143™*	89065	strong positive	✓	2	1
	Enterococcus casseliflavus		ATCC® 700327 TM *	89195	01	· ·	1	1
9	Enterococcus faecalis		ATCC® 19433™*	89025		· ·	2	1
87	Enterococcus faecalis		ATCC® 29212 TM *	89026		· ·	2	1
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WDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
210	Enterococcus faecalis	derived from	ATCC® 33186™*	89115		1	2	1
			12000 11200		high level Gentamicin-resistant and			
	Enterococcus faecalis	derived from	ATCC® 49532™*	89066	Streptomycin-sensitive	1	2	1
	Enterococcus faecalis	derived from	ATCC® 49533™*	89067	high level Gentamicin-sensitive and Streptomycin-resistant	1	2	1
	Litterococcus faecans	derived from	/// CC® +3333	03007	Vancomycin resistant and	,		
85	Enterococcus faecalis	derived from	ATCC® 51299™*	89173	high level aminoglycosides, vanB	✓	2	1
10	Enterococcus faecium	derived from	ATCC® 19434™*	89171	0	✓	2	1
	Enterococcus faecium	derived from	ATCC® 51559™*	89117		✓	2	1
	Enterococcus faecium	derived from	ATCC® 6057™*	89152		✓	2	1
	Enterococcus faecium	derived from	ATCC® BAA-2319™*	89172	vanA resistance	✓	2	1
	Erysipelothrix rhusiopathiae	derived from	ATCC® 19414™*	89187		✓	2	2
	Escherichia coli	derived from	ATCC® 11303™*	89184		✓	1	1
13	Escherichia coli	derived from	ATCC® 25922™*	89027		✓	1	1
	Escherichia coli	derived from	ATCC® 35218™*	89163	beta lactamase producer	✓	1	1
12	Escherichia coli	derived from	ATCC® 8739™*	89028		✓	1	1
	Fluoribacter bozemanae	derived from	ATCC® 33217™*	89157		✓	2	8
	Fusobacterium nucleatum subsp. nucleatum	derived from	ATCC® 25586™*	89118		✓	2	4
	Gardnerella vaginalis	derived from	ATCC® 14018 TM *	89099		✓	2	9
	Geobacillus stearothermophilus	derived from	ATCC® 7953™*	89203		✓	1	1
	Haemophilus haemolyticus	derived from	ATCC® 33390™*	89123		✓	2	3
	Haemophilus influenzae	derived from	ATCC® 10211™*	89120	type b; beta lactamase negative	✓	2	3
	Haemophilus influenzae	derived from	ATCC® 19418™*	89160		✓	2	3
	Haemophilus influenzae	derived from	ATCC® 33391™*	89176		✓	2	3
	Haemophilus influenzae	derived from	ATCC® 33533™*	89124	type b; beta lactamase producer	✓	2	3
	Haemophilus influenzae	derived from	ATCC® 49247 TM *	89077		✓	2	3
	Haemophilus influenzae		ATCC® 49766™*	89076		✓	2	3
	Haemophilus influenzae	derived from	ATCC® 9007™*	89142	type c	✓	2	3
	Issatchenkia orientalis	derived from	ATCC® 6258™*	89073		✓	1	5
					control strain for the AmpC disk test;			
	Klebsiella pneumoniae	derived from	ATCC® BAA-1144™*	89150	weak positive	✓	2	1
	Klahaialla anassasasia	dout and farms	ATCC® BAA-1705™*	89088	Modified Hodge Test (MHT) positive control	,	2	1
	Klebsiella pneumoniae	derived from	AICC® BAA-1705 IIII	69066	Modified Hodge Test (MHT) negative	√	2	I
	Klebsiella pneumoniae	derived from	ATCC® BAA-1706™*	89087	control	✓	2	1
	Tuessiena priedirionae	derived irom	, eee Bret 1, ee	03007	New Delhi metallo-beta-lactamase	•	_	
	Klebsiella pneumoniae	derived from	ATCC® BAA-2146™*	89069	(NDM-1) positive	✓	2	1
97	Klebsiella pneumoniae subsp. pneumoniae		ATCC® 13883™*	89089	·	✓	2	1
	Klebsiella pneumoniae subsp. pneumoniae	derived from	ATCC® 31488 TM *	89199		✓	2	1
192	Klebsiella pneumoniae subsp. pneumoniae	derived from	ATCC® 4352™*	89192		✓	2	1
	Klebsiella pneumoniae subsp. pneumoniae	derived from	ATCC® 700603™*	89070	ESBL positive	✓	2	1
98	Lactobacillus acidophilus	derived from	ATCC® 4356™*	89080		✓	1	11
	Lactobacillus fermentum	derived from	ATCC® 9338™*	89100		✓	1	11
	Lactobacillus leichmannii	derived from	ATCC® 4797™*	89081		✓	1	11
	Lactobacillus paracasei subsp. paracasei	derived from	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™*	89151		✓	2	8

				CultiControl		IVD according	PioSafety	Docommonded
WDCM				Ref.	notes	to 98/79/EC	BioSafety Level	Recommended growth method
107	Legionella pneumophila subsp. pneumophila		ATCC® 33152™*	89052		1	2	8
	Listeria grayi		ATCC® 25401™*	89101		1	1	1
17	Listeria innocua		ATCC® 33090™*	89029		4	1	1
18	Listeria ivanoviisubsp.ivanovii	derived from	ATCC® 19119™*	89030		✓	2	1
21	Listeria monocytogenes	derived from	ATCC® 13932™*	89085	serotype 4b	1	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	derived from	ATCC® 35152™*	89148		✓	2	1
	Listeria monocytogenes	derived from	ATCC® 7644™*	89060		✓	2	1
	Listeria monocytogenes	derived from	ATCC® BAA-751™*	89143		√	2	1
	Micrococcus luteus	derived from	ATCC® 10240 TM *	89096		√	1	1
111	Micrococcus luteus	derived from	ATCC® 4698™*	89102		√	1	1
	Moraxella (Branhamella) catarrhalis		ATCC® 25238 TM *	89103		· /	1	2
	Neisseria gonorrhoeae		ATCC® 19424 TM *	89074		√	2	3
	Neisseria gonorrhoeae		ATCC® 31426 TM *	89075	beta lactamase producer	1	2	3
	Neisseria gonorrhoeae		ATCC® 49226 TM *	89104	beta lactamase producer	<i>J</i>	2	3
	Neisseria gonorrhoeae		ATCC® 49981 TM *	89122	Penicillin resistant	√	2	3
	Neisseria meningitidis		ATCC® 13090 TM *	89164	serogroup B	√	2	3
	Nocardia brasiliensis		ATCC® 19090 ATCC® 19296™*	89189	serogroup b	√	2	1
			ATCC® 19290*** ATCC® 27337***	89165		√	1	4
	Peptostreptococcus anaerobius					, ·	•	1
	Plesiomonas shigelloides		ATCC® 14029™*	89094		√	2	·
	Porphyromonas gingivalis		ATCC® 33277™*	89162		√	2	4
	Prevotella melaninogenica		ATCC® 25845™*	89134		✓	2	4
	Propionibacterium acnes		ATCC® 11827™*	89135		✓	1	4
	Proteus hauseri		ATCC® 13315 TM *	89190		✓	2	1
	Proteus mirabilis		ATCC® 12453 TM *	89049		✓	2	1
	Proteus mirabilis		ATCC® 25933™*	89032		✓	2	1
23	Proteus mirabilis		ATCC® 29906™*	89083		✓	2	1
	Proteus mirabilis		ATCC® 35659™*	89105		✓	2	1
	Proteus mirabilis	derived from	ATCC® 43071™*	89106		✓	2	1
	Proteus vulgaris	derived from	ATCC® 6380™*	89107		✓	2	1
	Providencia stuartii	derived from	ATCC® 33672™*	89125		✓	1	1
24	Pseudomonas aeruginosa	derived from	ATCC® 10145™*	89108		✓	2	1
	Pseudomonas aeruginosa	derived from	ATCC® 15442™*	89109	Pyocyanin not produced	✓	2	1
25	Pseudomonas aeruginosa	derived from	ATCC® 27853™*	89033		✓	2	1
26	Pseudomonas aeruginosa	derived from	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	derived from	ATCC® 9763™*	89036		✓	1	5
	Salmonella enterica subsp. arizonae	derived from	ATCC® 13314™*	89154		✓	2	1
30	Salmonella enterica subsp. enterica serovar Enteritidis		ATCC® 13076™*	89084	group D	√	2	1
	Salmonella enterica subsp. enterica serovar Hillingdon	derived from	ATCC® 9184™*	89185	<u> </u>	√	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	dariyad fram	ATCC® 13311 TM *	89054			2	1
121	Salmonella enterica subsp. enterica serovar	derived from	AICC® 13311	09034		V	2	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™*	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		✓	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® 29213TM*	89041		√	2	1
	Staphylococcus aureus subsp. aureus		ATCC® 33591™*	89116	methicillin resistant	√	2	1
211	Staphylococcus aureus subsp. aureus		ATCC® 43300™*	89043	methicillin resistant; mec A positive	√	2	1
	Staphylococcus aureus subsp. aureus		ATCC® 49476™*	89181	,	√	2	1
	Staphylococcus aureus subsp. aureus	derived from	ATCC® 700698 TM *	89092	Methicillin resistant; GRD MIC Test Strip control	✓	2	1
	Staphylococcus aureus subsp. aureus		ATCC® 700699™*	89093	Methicillin resistant; Mu50; reduced Vancomycin susceptibility	✓	2	1
35	Staphylococcus aureus subsp. aureus	derived from	ATCC® 9144 TM *	89182		✓	2	1
	Staphylococcus aureus subsp. aureus		ATCC® BAA-44™*	89170	Methicillin resistant	✓	2	1
36	Staphylococcus epidermidis	derived from	ATCC® 12228™*	89045		✓	1	1
132	Staphylococcus epidermidis	derived from	ATCC® 14990™*	89202		✓	1	1
	Staphylococcus haemolyticus	derived from	ATCC® 29970™*	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™*	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	✓	2	2
133	Streptococcus bovis		ATCC® 33317™*	89061		✓	1	2
	Streptococcus dysgalactiae subsp. equisimilis		ATCC® 12388™*	89128	group C	✓	2	2
	Streptococcus mitis		ATCC® 6249 TM *	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
							-	

WDCM				CultiControl Ref.	notes	IVD according to 98/79/EC	BioSafety Level	Recommended growth method
	Streptococcus pyogenes	derived from	ATCC® 19615™*	89048	group A	V	2	2
	Streptococcus pyogenes	derived from	ATCC® 49399™*	89130	group A	1	2	2
	Streptococcus salivarius	derived from	ATCC® 13419™*	89131		1	1	2
134	Streptococcus salivarius subsp. thermophilus	derived from	ATCC® 19258™*	89186		1	1	2
	Streptococcus sanguinis	derived from	ATCC® 10556™*	89064		1	2	2
	Trichophyton mentagrophytes	derived from	ATCC® 9533™*	89140		1	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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