



Products for microbiology

Microbiological analysis of water

Membrane filtration methods, and other alternative methods

According to Commission Directive (EU) 2015/1787 of 6 October 2015 amending Annexes II and III to Council Directive 98/83/EC on the quality of water intended for human consumption.



Drinking water

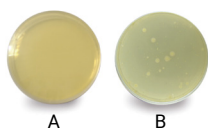
Parameter	Parametric value	Method	Recommended product
<i>Escherichia coli</i>	0 CFU in 100 ml	ISO 9308-1	CCA Coliforms Chromogenic Agar (ISO 9308-1:2014). According to ISO standard.
		SCO/778/2009	CCA Agar
Enterococci	0 CFU in 100 ml	ISO 7899-2	Slanetz Bartley Medium (ISO 7899-2:2000). According to ISO standard.
<i>Clostridium perfringens</i> (including spores)	0 CFU in 100 ml	98/83/EC ISO 14189	TSC Agar
Coliform bacteria	0 CFU in 100 ml	ISO 9308-1	CCA Coliforms Chromogenic Agar (ISO 9308-1:2014). According to ISO standard.
		SCO/778/2009	CCA Agar
Colony count at 22 °C			
After central treatment	100 CFU in 1 ml	ISO 6222	Tryptone Yeast Extract Agar (ISO 6222:1999). According to ISO standard.
From distribution network	No abnormal change		

Bottled drinking water

Parameter	Parametric value	Method	Recommended product
Coliform bacteria and <i>Escherichia coli</i> (<i>E. coli</i>)	0/250 ml	ISO 9308-1	CCA Coliforms Chromogenic Agar (ISO 9308-1:2014). According to ISO standard.
Enterococci	0/250 ml	ISO 7899-2	Slanetz Bartley Medium (ISO 7899-2:2000) According to ISO standard
<i>Pseudomonas aeruginosa</i>	0/250 ml	EN ISO 16266	<i>Pseudomonas</i> CN Agar (EN ISO 16266). According to ISO standard.
Colony count at 22 °C Incubation 72 hours	100/ml	ISO 6222	Tryptone Yeast Extract Agar (ISO 6222:1999). According to ISO standard.
Colony count at 37 °C Incubation 24 hours	20/ml	ISO 6222	Tryptone Yeast Extract Agar (ISO 6222:1999). According to ISO standard.
Sulfite reducing clostridia*	0/50 ml		SPS Agar
<i>Clostridium perfringens</i> (including spores)	0/100 ml	98/83/EC ISO 14189	TSC Agar

*For natural mineral waters and spring waters.

Enumeration of Aerobic Bacteria

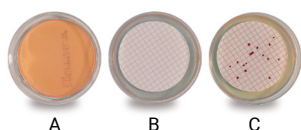


Tryptone Yeast Extract Agar (ISO 6222:1999)

Codes 466106 and 496106

- A. Clean drinking water (1 ml).
Incubation at 22 °C/ 72 hours. Absence/ml.
B. Drinking water contaminated with *E. coli* ATCC 25922 (1 ml).
Incubation at 22 °C/ 72 hours <100 fcu/ml.

Enterococci



Slanetz Bartley Medium

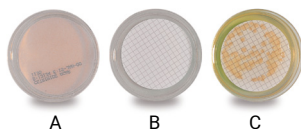
Code 443812

Description:

Enterococci form red or reddish brown colonies with a diameter of 1-2 mm.

- A. Blank Plate.
B. Drinking Water (100 ml). Incubation at 37 °C/ 24 hours. Absence/100 ml.
C. Water contaminated with *E. faecalis* ATCC 19433 (100 ml).
Incubation at 37 °C/ 24 hours. Presence.

Pseudomonas aeruginosa



Pseudomonas CN Agar (EN ISO 16266)

Code 443752

Description:

P. aeruginosa colonies in this medium are creamy white coloured and with mucosal appearance.

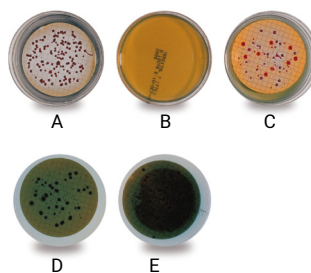
- A. Blank Plate.
B. Bottled Water (250 ml). Incubation at 37 °C/ 24 hours. Absence/250 ml.
C. Water contaminated with *P. aeruginosa* ATCC 10145 (100 ml).
Incubation at 37 °C/ 24 hours. Presence.

CCA Agar Chromogenic (ISO 9308-1)

A major revision of the ISO 9308-1 standard came into force in late 2014. This states that the TTC Agar (Chapman or Tergitol-7 Agar) is replaced by the CCA Chromogenic Agar as a culture medium for the enumeration of *Escherichia coli* and *coliform* bacteria after membrane filtration stage. The CCA is based on enzymatic reactions that give colour to the colonies of target organisms for simultaneous detection of coliforms and *E. coli*.

This medium is suitable for samples with low microbial load as drinking water, swimming pools, disinfected waters and water treatment plants at the end of the treatment.

Coliforms and *Escherichia coli*



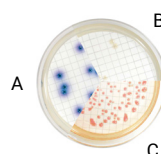
Tergitol 7 Agar (Chapman TTC modified (ISO 9308-1:2000)

Code 444955

Description:

Coliform bacteria form yellow colonies or yellow colonies with orange-coloured center colonies or reddish brown inside a yellow halo.

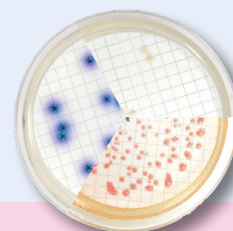
- A. Water contaminated with *S. typhimurium* ATCC 14028 and *P. aeruginosa* ATCC 10145 (100 ml). Incubation at 37 °C/ 24 hours. Absence of coliforms.
B. Blank Plate.
C. Water contaminated with *S. typhimurium* ATCC 14028 and *E. coli* ATCC 25922 (100 ml). Incubation at 37 °C/ 24 hours. Presence.
D. Inverted Plate. Without yellow halo.
E. Inverted Plate. With yellow halo.



CCA Coliforms Chromogenic Agar (ISO 9308-1)

Code 447153

- A. Water contaminated with *E. coli* ATCC 25922 and ATCC 8739. Incubation at 36 °C/ 21 hours. Presence.
B. Water contaminated with *Salmonella enteritidis* ATCC 13076. Incubation at 36 °C/ 21 hours. Presence.
C. Water contaminated with *Citrobacter freundii* ATCC 8090. Incubation at 36 °C/ 21 hours. Presence.

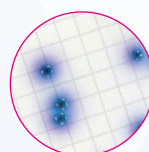


Main advantages

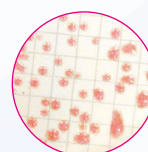
- Very good recovery.
- Ideal for detection and collection of *E. coli* and coliforms in water with low contamination.
- Good colour contrast that facilitates the interpretation.
- Available in dehydrated media and 55 mm plates.

Interpretation

E. coli ► Colonies from blue to violet.
Coliforms ► Pink salmon to red.
Other bacteria (primarily Gram-negative) ►
 Colourless (except those with a weak glucuronidase activity but not galactosidase, producing light blue or turquoise colonies).



E. coli



Coliforms



Other enterobacteria
Salmonella

Technique

1. The water sample is filtered through a membrane filter of 0.45 µm pore diameter, validated according to the ISO Standard 7704:1985 (*).
2. The membrane is then placed on the surface of the CCA medium avoiding entrapment of air bubbles between the membrane and agar surface.
3. The petri dish with the membrane is incubated for 18-24 hours at 36 ± 2°C. If in 18 h there is growth of red or colourless colonies, extend the incubation until 24 h to include late reactions of β-galactosidase or β-glucuronidase.

(*). When the Chromogenic Agar for Coliform is used with the membrane filter method, the colour and growth of the colonies can be modified by the characteristics of the membrane filter. It is advisable to perform a validation of the membrane filter type used.

Composition

Enzymatic digest of casein	1.00
Yeast extract	2.00
Sodium chloride	5.00
Monosodium phosphate	2.20
Disodium phosphate	2.70
Tryptophan	1.00
Sodium pyruvate	1.00
Tergitol®7	0.15
Sorbitol	1.00
6-Chloro-3-indoxyl-β- D-galactopyranoside	0.20
5-Bromo-4-chloro-3- indoxyl-β-D-glucuronide	0.10
IPTG	0.10
Agar	13.00
pH	6.8 ±0.2

Results

Count β-galactosidase positive colonies and β-glucuronidase negative colonies (all colonies coloured from salmon-rose to red) as Coliform bacteria different from *E. coli*.

Count β-galactosidase positive colonies and β-glucuronidase positive colonies (all colonies coloured from deep blue to violet) as *E. coli*.

Total Coliform count is obtained by the addition of the salmon-rose to red colonies plus the deep blue to violet colonies.

Calculate the concentration of Coliform bacteria and *E. coli* in 100 mL from the initial volume of water filtered and the number of characteristic colonies counted on the membrane. The results are expressed as Colony Forming Units per 100 mL (CFU/100 mL).

To confirm the *E. coli* colonies in this medium a small amount of tryptophan is included verifying indole production: Coat the blue-violet colonies with a drop of Kovacs' Reagent. If the reagent turns a cherry-red colour in a few seconds this confirms the production of indole and hence the presence of *E. coli*.



Product code	Product name	Pack sizes
416109.1210	Chromogenic <i>E. coli</i> Agar (Dehydrated Culture Media) for microbiology	500 g
447153.0922	CCA Coliforms Chromogenic Agar (ISO 9308-1) (Prepared Plate (Ø 55 mm)) for microbiology	30 plates
Also available CCA Agar according to Spanish regulation SCO/778/2009, of 17 March (not ISO) Ideal for analysis of waste water and very contaminated samples (see technical data sheet)		
446910.0922	CCA Coliforms, Chromogenic Agar (Prepared Plate (Ø 55 mm)) for microbiology	30 plates
Auxiliary reagent		
252908.1608	Kovacs' Reagent for clinical diagnostics	100 mL

INGREDIENTS

Agar, Bacteriological American Type (Ingredient)

Solidifying agent used in bacteriological culture media.
CAS: 9002-18-0 EINECS: 232-658-1 NC: 1302 31 00

SPECIFICATIONS	
pH 1.5% before autoclaving	6.0-7.5
pH 1.5% after autoclaving	6.0-7.5
Range of Gelling 1.5%	32-38°C
Melting range 1.5% gel	80-95°C
Gel strength (Nikan's method) 1.5%	600-850 g/cm ²
MAXIMUM LIMIT OF IMPURITIES	
Loss on drying at 105°C	20%
Residue on ignition	6.5%

Product code	Pack sizes	Units box
402303.1210	500 g	6

Agar, Bacteriological European Type (Ingredient)

Solidifying agent used in bacteriological culture media.
CAS: 9002-18-0 EINECS: 232-658-1 NC: 1302 31 00

SPECIFICATIONS	
pH 1.5% before autoclaving	6.0-7.5
pH 1.5% after autoclaving	6.0-7.5
Range of Gelling 1.5%	34-38°C
Melting range 1.5% gel	85-90°C
Gel strength (Nikan's method) 1.5%	800-1100 g/cm ²
MAXIMUM LIMIT OF IMPURITIES	
Loss on drying at 105°C	12%
Residue on ignition	5.0%

Product code	Pack sizes	Units box
402302.1210	500 g	6
402302.0914	5 kg	

Agar, Technical (Ingredient)

Solidifying agent used in bacteriological culture media.
CAS: 9002-18-0 EINECS: 232-658-1 NC: 1302 31 00

SPECIFICATIONS	
pH 1.5%	6.0-7.5
Gel strength (Nikan's method) 1.5%	750-1000 g/cm ²
MAXIMUM LIMIT OF IMPURITIES	
Loss on drying at 105°C	20%
Residue on ignition	5%

Product code	Pack sizes	Units box
401792.1210	500 g	6

Casein Peptone (Ingredient)

Nutritional ingredient to prepare culture media.
NC: 3504 00 90

SPECIFICATIONS	
pH sol. 2%	6.5-7.5
Loss on drying at 105°C	6%
Residue on ignition	15%
Nitrogen, total	≥10%

Product code	Pack sizes	Units box
403898.1210	500 g	6

Malt Extract (Ingredient)

Nutritional ingredient in media preparation for yeast and moulds.
NC: 3504 00 90

SPECIFICATIONS	
pH sol. 5%	4.5-5.5
Loss on drying at 105°C	6%
Residue on ignition (as SO ₄)	3.5%

Product code	Pack sizes	Units box
403690.1210	500 g	6

Meat Extract (Ingredient)

Nutrient base in culture media.
NC: 3504 00 90

SPECIFICATIONS	
pH sol. 2%	6.5-7.5
Loss on drying at 105°C	6%
Residue on ignition	16%
Nitrogen, total	≥10%

Product code	Pack sizes	Units box
403692.1210	500 g	6

Peptone, Bacteriological (Ingredient)

Product used in bacteriological culture media.
EINECS: 293-428-4 NC: 3504 00 90

SPECIFICATIONS	
pH sol. 2%	6.5-7.5
Loss on drying at 105°C	6%
Residue on ignition	15%
Nitrogen, total	≥12%

Product code	Pack sizes	Units box
403695.1210	500 g	6

Tryptone (Ingredient)

Source of nitrogen for culture media.
NC: 3504 00 90

SPECIFICATIONS	
pH sol. 2%	6.5-7.5
Loss on drying at 105°C	6%
Residue on ignition	15%
Nitrogen, total	≥10%

Product code	Pack sizes	Units box
403682.1210	500 g	6

Yeast Extract (Ingredient)

Nutrient base in culture media.
NC: 3504 00 90

SPECIFICATIONS	
pH sol. 2%	6.0-7.2
Dry matter	≥94%
Nitrogen, total	≥10%

Product code	Pack sizes	Units box
403687.1210	500 g	6

DEHYDRATED CULTURE MEDIA AND SUPPLEMENTS (See also Prepared Media)

Baird-Parker Agar Base (Dehydrated Culture Media)

Culture medium for the determination and the enumeration of *Staphylococci*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	5.0
Yeast extract	1.0
Glycine	12.0
Lithium Chloride	5.0
Digest Pancreatic of Casein	10.0
Sodium Pyruvate	10.0
Agar	20.0
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
413744.1210	500 g	6

Bile Esculin Azide Agar (ISO 7899-2:2000) (Dehydrated Culture Media)

Culture medium for presumptive identification of Enterococci according to ISO 7899-2:2000. NC: 3821 00 00

HAZARDOUS:



H: H302 • H412
P: P264 • P270 • P273 • P301+P312 • P330 • P501

SPECIFICATIONS	
Composition (g/L):	
Ox Bile	10.0
Esculin	1.0
Sodium Azide	0.15
Yeast extract	5.0
Iron(III) Citrate	0.5
Peptone	3.0
Sodium Chloride	5.0
Tryptone	17.0
Agar	15.0
pH	7.1 ± 0.2

Product code	Pack sizes	Units box
415523.1210	500 g	6

Brain Heart Infusion (BHI) (Dehydrated Culture Media)

Culture medium for fastidious microorganisms.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Calf Brain Infusion	7.5
Meat Heart Infusion	10.0
D(+)-Glucose	2.0
Gelatin Peptone	10.0
Sodium Chloride	5.0
di-Sodium Hydrogen Phosphate	2.5
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413777.1210	500 g	6

Brain Heart Infusion Agar (BHI) (Dehydrated Culture Media)

Culture medium for fastidious microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Calf Brain Infusion	7.5
Meat Heart Infusion	10.0
D(+)-Glucose	2.0
Mixture of Peptones	10.0
di-Potassium Hydrogen Phosphate	2.5
Sodium Chloride	5.0
Agar	15.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413772.1210	500 g	6



Buffered Peptone Water (ISO 6579, ISO 22964, ISO 6887, DIN 10181, 10160) (Dehydrated Culture Media)

Diluent agent to homogenize samples in foodstuffs.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Digest Pancreatic of Casein	10.0
Potassium di-Hydrogen Phosphate	1.5
Sodium Chloride	5.0
di-Sodium Hydrogen Phosphate	3.51 (*)
pH	7.0 ± 0.2
(*) It is equivalent to: di-Sodium Hydrogen Phosphate 12-hydrate	
	9.0

Product code	Pack sizes	Units box
413795.1210	500 g	6

Buffered Sodium Chloride-Peptone solution (Ph. Eur.) (Dehydrated Culture Media)

Diluent agent for the homogenization of samples. NC: 3504 00 90

SPECIFICATIONS	
Composition (g/L):	
Digest Pancreatic of Casein	1.00
Potassium di-Hydrogen Phosphate	3.60
Sodium Chloride	4.30
di-Sodium Hydrogen Phosphate 2-hydrate	7.20
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
414944.1210	500 g	6
414944.0914	5 kg	

Cetrimide Agar (Ph. Eur.) (Dehydrated Culture Media)

Culture medium for the enumeration of *Pseudomonas aeruginosa*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Cetrimide	0.3
Magnesium Chloride	1.4
Pancreatic Digest of Gelatine	20.0
Potassium Sulfate	10.0
Agar	13.6
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416256.1210	500 g	6

Chapman TTC (Tergitol 7) Agar

(see Tergitol 7 Agar (Chapman TTC modified))

Chapman USP Medium

(see Mannitol Salt Agar)

Chromogenic *E. coli* Agar (Dehydrated Culture Media)

Culture medium for the simultaneous detection of total Coliform and *E. coli*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Chromogenic mixture	0.36
Bacteriological Peptone	3.0
Sodium Chloride	5.0
Sodium Pyruvate	1.0
Sorbitol	1.0
Phosphate Buffer	4.9
Tergitol-7	0.1
Tryptophan	1.0
Agar	10.0
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
416109.1210	500 g	6

Chromogenic Salmonella Agar (Dehydrated Culture Media)

Culture medium for isolation of *Salmonella*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Chromogenic mixture	5.81
Meat Extract	5.00
Casein Peptone	5.0
Sodium Citrate	8.50
Agar	12.80
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416110.1210	500 g	6

Egg Yolk Tellurite Emulsion (Supplement)

Additive for culture media for detection of lecithinase activity.
NC: 3821 00 00

Product code	Pack sizes	Units box
414723.1608	100 mL	6

FDA M169

(see TSC Agar Base)

Fraser Listeria Broth Base (ISO 11290-1:1996) (Dehydrated Culture Media)

Enrichment medium for detection and enumeration of *Listeria monocytogenes*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Esculin	1.0
Yeast Extract	5.0
Meat Extract	5.0
Lithium Chloride	3.0
Potassium di-Hydrogen Phosphate	1.35
Proteose Peptone	5.0
Sodium Chloride	20.0
di-Sodium Phosphate	12.0
Tryptone	5.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416112.1210	500 g	6

Fraser 1/2 Listeria Selective Enrichment (Supplement)

Additive used for the enrichment of *Listeria monocytogenes*. NC: 3821 00 00

HAZARDOUS:



H: H302 • H315 • H319 • H335
P: P261 • P305+P351+P338

SPECIFICATIONS	
Composition (g/L):	
Ammonium Iron(III) Citrate	250.0
Sodium Nalidixate	5.0
Acryflavine	6.2

Product code	Pack sizes	Units box
416114.02132	10 vials	6

Glucose Chloramphenicol Agar (Dehydrated Culture Media)

Culture medium for the count and the isolation of fungi. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	20.0
Chloramphenicol	0.20
Yeast Extract	5.0
Agar	15.0
pH	6.6 ± 0.2

Product code	Pack sizes	Units box
414956.1210	500 g	6

King B Medium (Dehydrated Culture Media)

Medium for the differentiation of *Pseudomonas* based in the production of Fluorescein. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Magnesium Sulfate	1.5
Polypeptone	20.0
di-Potassium Hydrogen Phosphate	1.5
Agar	15.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
413775.1210	500 g	6

Lethen Broth (modified) (Dehydrated Culture Media)

Culture medium for the determination of the antimicrobial activity of quaternary ammonium compounds. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	5.0
Yeast Extract	2.0
Lecithin	0.7
Casein Peptone	5.0
Meat Peptone	20.0
Dextrose	1.0
Sodium Chloride	5.0
Sodium Bisulfite	0.1
Polysorbate 80	5.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
415382.1210	500 g	6

Lipase C Selective Enrichment (Supplement)

Selective supplement for the isolation of *Listeria*. NC: 3821 00 00

SPECIFICATIONS	
Formula per vial:	
Lipase C Substrate	1000 mg

Product code	Pack sizes	Units box
416893.02132	10 vials	6



**Listeria Chromogenic Agar (ISO 11290-1:2004)
(Dehydrated Culture Media)**

Selective medium for the detection and enumeration of *Listeria monocytogenes*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Peptone	18.0
Lithium Chloride	10.0
Yeast extract	10.0
Tryptone	6.0
Sodium Chloride	5.0
di-Sodium Hydrogen Phosphate anhydrous	2.5
Dextrose	2.0
Sodium Pyruvate	2.0
Magnesium Glycero-phosphate	1.0
Magnesium Sulfate	0.5
X-Glucoside	0.05
Bacteriological Agar	13.5
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416891.1210	500 g	6

**Listeria Selective Enrichment Chromogenic
(Supplement)**

Supplement used for the determination of *Listeria monocytogenes*. NC: 3821 00 00

SPECIFICATIONS	
Formula per vial:	
Polymixin B Sulfate	38.350 UI
Ceftazidime	10 mg
Nalidixic acid	10 mg
Cycloheximide	50 mg

Product code	Pack sizes	Units box
416894.02132	10 vials	6

Luria Broth Base (Dehydrated Culture Media)

Culture medium for the development of *Escherichia coli*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Casein Peptone	10.0
Yeast Extract	5.0
Sodium Chloride	10.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
414753.1210	500 g	6

**MacConkey Agar (Ph. Eur., ISO 21567)
(Dehydrated Culture Media)**

Culture medium for Coliforms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Lactose	10.0
Peptones (meat and casein)	3.0
Bile Salts	1.5
Gelatin Peptone	17.0
Neutral Red	0.03
Sodium Chloride	5.0
Crystal Violet	0.001
Agar	13.5
pH	7.1 ± 0.2

Product code	Pack sizes	Units box
413779.1210	500 g	6

MacConkey Broth (Ph. Eur.) (Dehydrated Culture Media)

Culture medium for Coliforms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Ox Bile	5.0
Lactose	10.0
Gelatin Peptone	20.0
Bromocresol Purple	0.01
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
413780.1210	500 g	6

Malt Extract Agar (Dehydrated Culture Media)

Culture medium for the isolation and enumeration of yeast and fungi. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Malt Extract	12.75
Dextrin	2.75
Glycerol	2.35
Gelatin Peptone	0.78
Agar	15.0
pH	4.7 ± 0.2

Product code	Pack sizes	Units box
413781.1210	500 g	6

Mannitol Salt Agar (Ph. Eur.) (Dehydrated Culture Media)

Medium for cultivation and enumeration of Staphylococci.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Sodium Chloride	75.0
D(-)-Mannitol	10.0
Meat Extract	1.0
Digest Pancreatic of Casein	5.0
Peptic Digest of Animal Tissue	5.0
Phenol Red	0.025
Agar	15.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413783.1210	500 g	6

Mannitol-Salt-Phenol Red Agar

(see Mannitol Salt Agar)

Marine Agar (Dehydrated Culture Media)

Medium for the cultivation of heterotrophic marine bacteria.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Boric Acid	0.022
Ammonium Nitrate	0.0016
Calcium Chloride	1.8
Strontium Chloride	0.034
Yeast Extract	1.0
Iron Citrate	0.1
Magnesium Chloride	8.8
Peptone	5.0
Potassium Bromide	0.08
Potassium Chloride	0.55
Sodium Chloride	19.4
Sodium Fluoride	0.0024
Sodium Hydrogen Carbonate	0.16
di-Sodium Hydrogen Phosphate	0.008
Sodium Silicate	0.004
Sodium Sulfate	3.24
Agar	15.0
pH	7.6 ± 0.2

Product code	Pack sizes	Units box
414680.1210	500 g	6

Marine Broth (Dehydrated Culture Media)

Medium for the cultivation of heterotrophic marine bacteria.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Boric Acid	0.022
Ammonium Nitrate	0.0016
Calcium Chloride	1.8
Strontium Chloride	0.034
Yeast Extract	1.0
Iron Citrate	0.1
Magnesium Chloride	8.8
Bacteriological Peptone	5.0
Potassium Bromide	0.08
Potassium Chloride	0.55
Sodium Chloride	19.4
Sodium Fluoride	0.0024
Sodium Hydrogen Carbonate	0.16
di-Sodium Hydrogen Phosphate	0.008
Sodium Silicate	0.004
Sodium Sulfate	3.24
pH	7.6 ± 0.2

Product code	Pack sizes	Units box
414698.1210	500 g	6

Medium A

((see Tryptone Soy Broth (TSB))

Medium B

(see Tryptone Soy Agar (TSA))

Medium C

(see Sabouraud Glucose Agar + Chloramphenicol)

Medium G

(see MacConkey Broth)

Medium H

(see MacConkey Agar)

Medium N

(see Cetrimide Agar)

Medium O

(see Baird-Parker Agar Base)

**Minerals (modified) Glutamated Broth (MMGB)
(ISO 16649-3) (Dehydrated Culture Media)**

Broth used for presumptive identification of coliforms in water.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Sodium L-Glutamate	6.4
Lactose	10.0
Sodium Formate	0.25
L-Cystine	0.02
L-Aspartic Acid	0.024
L-Arginine	0.02
Thiamine	0.0001
Nicotinic Acid	0.0001
Pantothenic Acid	0.0001
Magnesium Sulfate 7-hydrate	0.1
Ammonium Iron(III) Citrate	0.01
Calcium Chloride 2-hydrate	0.01
di-Potassium Hydrogen Phosphate	0.9
Bromocresol Purple	0.01
pH	6.7 ± 0.1

Product code	Pack sizes	Units box
416895.1210	500 g	6

MRS Agar (Dehydrated Culture Media)

Medium for the cultivation of Lactobacillus species.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
di-Ammonium Hydrogen Citrate	2.0
Meat Extract	8.0
Yeast Extract	4.0
D(+)-Glucose	20.0
Magnesium Sulfate	0.2
Manganese(II) Sulfate	0.05
Bacteriological Peptone	10.0
di-Potassium Hydrogen Phosphate	2.0
Sodium Acetate	5.0
Tween 80	1.0
Agar	10.0
pH	6.2 ± 0.2

Product code	Pack sizes	Units box
413784.1210	500 g	6

MRS Broth (Dehydrated Culture Media)

Medium for the cultivation of Lactobacillus species. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
di-Ammonium Hydrogen Citrate	2.0
Meat Extract	8.0
Yeast Extract	4.0
D(+)-Glucose	20.0
Magnesium Sulfate	0.2
Manganese(II) Sulfate	0.05
Bacteriological Peptone	10.0
di-Potassium Hydrogen Phosphate	2.0
Sodium Acetate	5.0
Tween 80	1.0
pH	6.2 ± 0.2

Product code	Pack sizes	Units box
413785.1210	500 g	6

Mueller-Hinton Agar (Dehydrated Culture Media)

Medium for sensitivity test for diverse antibiotics and sulfonamides.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Starch	1.5
Meat Infusion	2.0
Casein Peptone Hydrolysate	17.5
Agar	17.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413787.1210	500 g	6

Mueller-Hinton Broth (Dehydrated Culture Media)

Medium for sensitivity test in broth for diverse antibiotics.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Starch	1.5
Meat Infusion	2.0
Casein Peptone Hydrolysate	17.5
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413788.1210	500 g	6

**Nutrient Agar (ISO 6579, ISO 10273, ISO 19250)
(Dehydrated Culture Media)**

Medium for enumeration of organisms in water. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	3.0
Gelatin Peptone	5.0
Agar	15.0
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
413792.1210	500 g	6

Nutrient Broth (Dehydrated Culture Media)

Medium for the cultivation of non fastidious microorganisms.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	3.0
Gelatin Peptone	5.0
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
413793.1210	500 g	6

Oxidase Sticks

Test sticks used for the easy and rapid detection of the cytochrome-oxidase enzyme. 50 plastic sticks.

SPECIFICATIONS	
Composition (g/L):	
Tetramethyl-p-phenylenediamine hydrochloride	8% (p/v)

Product code	Pack sizes	Units box
416444.2326	50 sticks	6

PCA

(see Standard Methods Agar (APHA). Prepared Media: Plate Count Agar (PCA))

Peptone Water (Dehydrated Culture Media)

Diluent agent for the homogenization of samples. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Tryptone	10.0
Sodium Chloride	5.0
pH	7.2 ± 0.2


Product code	Pack sizes	Units box
413794.1210	500 g	6

Perfringens according to Angelotti Selective Agar

(see SPS Agar (Selective Agar according to Angelotti))

Potassium Tellurite solution 3,5% (Supplement)

Additive selective for culture media. NC: 3821 00 00
HAZARDOUS:

 H: H302
P: P264 • P270 • P301+P312 • P330 • P501

Product code	Pack sizes	Units box
414724.1608	100 mL	6

Potato Glucose Agar (Ph. Eur.) (Dehydrated Culture Media)

Medium for the culture and enumeration of yeast and fungi.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	20.0
Potatoes Infusion (200 g)	4.0
Agar	15.0
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
413758.1210	500 g	6

Pseudomonas CN Agar Base (EN ISO 16266) (Dehydrated Culture Media)

Medium for the enumeration of *Pseudomonas aeruginosa*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Cetrimide	0.2
Nalidixic Acid	0.015
Magnesium Chloride	1.4
Casein Peptone Hydrolysate	10.0
Gelatin Peptone	16.0
Potassium Sulfate	10.0
Agar	13.0
pH	7.1 ± 0.2

Product code	Pack sizes	Units box
413752.1210	500 g	6

Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250)

Enrichment broth for *Salmonella*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Magnesium Chloride anhydrous	18.73 (*)
Soy Peptone	5.0
Potassium di-Hydrogen Phosphate	1.4
di-Potassium Hydrogen Phosphate	0.20
Sodium Chloride	8.0
Malachite Green	0.04
pH	5.2 ± 0.2
(*) It is equivalent to: Magnesium Chloride 7-hydrate	40

Product code	Pack sizes	Units box
414959.1210	500 g	6

Rose Bengal Chloramphenicol Agar (Dehydrated Culture Media)

Culture medium for the enumeration and isolation of yeast and fungi.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Rose Bengal	0.05
Chloramphenicol	0.1
D(+)-Glucose	10.0
Magnesium Sulfate	0.5
Bacteriological Peptone	5.0
Potassium di-Hydrogen Phosphate	1.0
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
414855.1210	500 g	6

Sabouraud Agar

(see Sabouraud Glucose Agar)

Sabouraud+Chloramphenicol Agar

(see Sabouraud Glucose Agar+Chloramphenicol)

Sabouraud Glucose Agar (Ph. Eur.) (Dehydrated Culture Media)

Medium for the cultivation and enumeration of fungi and yeasts.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	40.0
Mixture of Peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1)	10.0
Agar	15.0
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
413802.1210	500 g	6

Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.) (Dehydrated Culture Media)

Medium for the cultivation and enumeration of fungi and yeasts.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	40.0
Chloramphenicol	0.05
Mixture of Peptones	10.0
Agar	15.0
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
413842.1210	500 g	6

Salmonella Shigella Agar (Dehydrated Culture Media)

Medium for the isolation of *Shigella* and *Salmonella*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	5.0
Iron(III) Citrate	1.0
Lactose	10.0
Peptones	5.0
Neutral Red	0.025
Bile Salts	8.5
tri-Sodium Citrate	8.5
Sodium Thiosulfate	8.5
Brilliant Green	0.00033
Agar	13.5
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
413805.1210	500 g	6

Selenite Cystine Broth (Dehydrated Culture Media)

Medium for the enrichment of *Salmonella*. NC: 3821 00 00
UN: 3077 IMDG: 9/III ADR: 9/III IATA: 9/III PAX: 911 CAO: 911



HAZARDOUS:
H: H332 • H302 • H373 • H411
P: P260 • P261 • P264 • P270 • P271 • P273 • P301+P312 • P304+P340 • P312 • P314 • P330 • P391 • P501

SPECIFICATIONS	
Composition (g/L):	
Sodium Hydrogen Selenite	4.0
L(-)-Cystine	0.01
Lactose	4.0
Mixture of Peptones	5.0
tri-Sodium Phosphate	10.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
413809.1210	500 g	6

Slanetz Bartley Medium (ISO 7899-2:2000) (Dehydrated Culture Media)

Culture medium for the enumeration of Enterococci. NC: 3821 00 00
HAZARDOUS:



H: H302
P: P264 • P270 • P301+P312 • P330 • P501

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	5.0
D(+)-Glucose	2.0
Sodium Azide	0.4
di-Potassium Hydrogen Phosphate	4.0
2,3,5-Triphenyl-2H-Tetrazolium Chloride	0.1
Tryptose	20.0
Agar	10.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
413812.1210	500 g	6

SPS Agar (Selective Agar according to Angelotti) (Dehydrated Culture Media)

Culture medium for the detection and enumeration of sulfite-reducing clostridia. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Sodium Sulfite	0.3
Polymixin B Sulfate	0.01
Sodium Sulfadiazine	0.12
Yeast Extract	10.0
Iron(III) Citrate	0.5
Casein Peptone	15.5
Agar	13.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
414125.1210	500 g	6

Standard Methods Agar (APHA) (ISO 4833:2003) (Dehydrated Culture Media)

Culture medium for the enumeration of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	2.5
D(+)-Glucose (Anhydrous)	1.0
Enzym Digest of Casein	5.0
Bacteriological Agar	15.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
413799.1210	500 g	6

Staphylococcus according to Baird-Parker Selective Agar

(see Baird-Parker Agar Base)

TBX Agar (ISO 16649-2,3:2001) (Dehydrated Culture Media)

Selective culture medium for the determination and the enumeration of *E. coli* according to ISO16649-2:2001. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Casein Peptone	20.0
Bile Salts	1.5
X-β-D-G lucuronide	0.075
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416220.1210	500 g	6

Tergitol 7 Agar

(see Chapman TTC (Tergitol 7) Agar)

Tryptone, Bile, X-Glucuronide Agar

(see TBX Agar)

Tryptone Soy Agar (TSA) (Ph. Eur.) (Dehydrated Culture Media)

Medium for the cultivation of a wide variety of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Papaic Digest of Soya	5.0
Digest Pancreatic of Casein	15.0
Sodium Chloride	5.0
Agar	15.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
413819.1210	500 g	6

Tryptone Soy Broth (TSB) (Ph. Eur.) (Dehydrated Culture Media)

Medium for the culture of a wide variety of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Papaic Digest of Soya	3.0
D(+)-Glucose	2.5
Digest Pancreatic of Casein	17.0
di-Potassium Hydrogen Phosphate	2.5
Sodium Chloride	5.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
413820.1210	500 g	6
413820.0914	5 kg	

Tryptone Soy+Tween+Lecithin Agar

(see Prepared Media: TSA-Tween-Lecithin-Agar)

Tryptone Water

(see Peptone Water)

Tryptone Yeast Extract Agar (ISO 6222:1999) (Dehydrated Culture Media)

Medium for the enumeration of microorganisms according to ISO 6222:1999. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	3.0
Tryptone	6.0
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
416106.1210	500 g	6

Tryptose-Sulfite-Cycloserine Agar

(see TSC Agar Base)

TSA

(see Tryptone Soy Agar (TSA))

TSA-Polysorbate-Lecithin Agar

(see Prepared Media: TSA-Tween-Lecithin-Agar)

TSB

(see Prepared Media: TSA-Tween-Lecithin-Agar)

Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (ISO 21528) (Dehydrated Culture Media)

Culture medium for the enumeration of Enterobacteriaceae.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Bile Salts Mixture	1.5
Crystal Violet	0.002
Neutral Red	0.03
D(+)-Glucose	10.0
Yeast Extract	3.0
Pancreatic Digest of Gelatine	7.0
Sodium Chloride	5.0
Agar	15.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413745.1210	500 g	6

Violet Red Bile Lactose Agar (VRBL) (ISO 4832) (Dehydrated Culture Media)

Culture medium for the detection and enumeration of Coliforms.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Bile Salts n° 3	1.5
Crystal Violet	0.002
Neutral Red	0.03
Lactose	10.0
Yeast Extract	3.0
Gelatin Peptone	7.0
Sodium Chloride	5.0
Agar	15.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
413746.1210	500 g	6

VRBG Agar

(see Violet Red Bile Glucose Agar (VRBG))

VRBL Agar

(see Violet Red Bile Lactose Agar (VRBL))

PREPARED MEDIA

PREPARED PLATES FOR WATER ANALYSIS THROUGH MEMBRANE FILTRATION

CCA Coliforms, Chromogenic Agar (Prepared Plate (Ø 55 mm))

Selective medium for the detection of total coliforms and *E. coli*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Peptone	3.0
Sodium Chloride	5.0
Monosodium Phosphate	2.2
di-Sodium Phosphate	2.7
Sodium Pyruvate	1.0
L-Tryptophan	1.0
Agar	10.0
Sorbitol	1.0
Tergitol-7	0.15
Cefsulodin	0.005
Vancomycin	0.005
Chromogenic b GLU Substrate	0.2
Chromogenic Salmon GAL Substrate	0.2
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
446910.0922	30 plates	

CCA Coliforms Chromogenic Agar (ISO 9308-1) (Prepared Plate (Ø 55 mm))

Selective medium for the detection of total coliforms and *E. coli*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Enzymatic Digest of Casein	1.00
Yeast Extract	2.00
Sodium Chloride	5.00
Mono-Sodium Phosphate	2.20
di-Sodium Phosphate	2.70
Tryptophan	1.00
Sodium Pyruvate	1.00
Tergitol-7	0.15
Sorbitol	1.00
5-Bromo-4-chloro-3-indoxyl-β-D-glucuronide	0.10
IPTG	0.10
Agar	13.00
6-Chloro-3-indoxyl β-D-galactopyranoside	0.20
pH	6.8 ± 0.2

Product code	Pack sizes	Units box
447153.0922	30 plates	

m-CP Agar (Prepared Plate (Ø 55 mm))

Culture medium for the enumeration of *C. perfringens*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D-Cycloserine	0.4
L-Cysteine mono-Hydrochloride 1-hydrate	1.0
Yeast Extract	20.0
Phenolphthalein di-Phosphate sol. 0.5%	20.0
Iron(III) Chloride 6-hydrate sol. 4.5%	2.0
3-Indoxyl-β-D-Glucopyranoside 3-hydrate	0.06
Magnesium Sulfate 7-hydrate	0.1
Polymixin B Sulfate	0.025
Bromocresol Purple	0.04
Saccharose	5.0
Tryptose	30.0
Agar	15.0
pH	7.6 ± 0.2

Product code	Pack sizes	Units box
445463.09180	30 plates	

Nutrient Agar (ISO 6579, ISO 10273, ISO 19250) (Prepared Plate (Ø 55mm))

Medium for enumeration of organisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	3.0
Meat Peptone	5.0
Agar	12.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
443792.0922	30 plates	

Slanetz Bartley Medium (ISO 7899-2:2000) (Prepared Plate (Ø 55 mm))

Medium for the enumeration of Enterococci. NC: 3821 00 00

HAZARDOUS:



H: H302
P: P264 • P270 • P301+P312 • P330 • P501

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	5.0
D(+)-Glucose	2.0
di-Potassium Hydrogen Phosphate	4.0
Sodium Azide	0.4
2,3,5-Triphenyl-2H-Tetrazolium Chloride	0.1
Tryptose	20.0
Agar	10.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
443812.0922	30 plates	

Tergitol 7 Agar (Chapman TTC modified) (ISO 9308-1:2000) (Prepared Plate (Ø 55 mm))

Culture medium for the detection and enumeration of total and faecal Coliforms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Bromothymol Blue	0.05
Yeast Extract	6.0
Meat Extract	5.0
Lactose	20.0
Peptone	10.0
Sodium Heptadecyl Sulphate	0.1
2,3,5-Triphenyl-2H-Tetrazolium Chloride	0.025
Agar	17.0
pH	7.5±0.2

Product code	Pack sizes	Units box
444955.0922	30 plates	

Tryptone Yeast Extract Agar (ISO 6222:1999) (Prepared Plate (Ø 55 mm))

Medium for the enumeration of microorganisms in water according to ISO 6222:1999. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	3.0
Tryptone	6.0
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
446106.0922	30 plates	

TSC, Agar (ISO 14189, 7937) (Prepared Plate (Ø 55 mm))

Culture medium for the detection and enumeration of *Clostridium perfringens* and other anaerobics in water, foods and other materials. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	5.0
Iron(III) Citrate	1.0
Soy Peptone	5.0
Sodium Disulfite	1.0
Tryptose	15.0
Cycloserine	0.4
Agar	14.0
pH	7.6±0.2

Product code	Pack sizes	Units box
445576.0922	30 plates	

CONTACT PLATES FOR HYGIENE SURFACE CONTROL

Plate Count Agar (PCA) (Contact Plate)

Medium for the enumeration of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	2.5
D(+)-Glucose	1.0
Tryptone	5.0
Agar	20.5
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
433799.0922	30 plates	

Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.) (Contact Plate)

Medium for the cultivation and enumeration of fungi and yeasts. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	40.0
Chloramphenicol	0.05
Mixture of Peptones	10.0
Agar	20.5
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
433842.0922	30 plates	

Tryptone Soy Agar (TSA) (Ph. Eur.) (Contact Plate)

Medium for the cultivation of a wide variety of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Soy Peptone	5.0
Casein Peptone	15.0
Sodium Chloride	5.0
Agar	15.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
433819.0922	30 plates	

TSA-Tween-Lecithin-Agar (Ph. Eur.) (Contact Plate)

Medium for detection and enumeration of a wide range of microorganisms and ability to neutralize the antibacterial activity of some bactericides. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Polisorbate 80	5.0
Lecithin	0.7
Histidine	1.0
Casein Peptone	15.0
Soy Peptone	5.0
Sodium Chloride	5.0
Sodium Thiosulfate	0.5
Agar	15.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
435095.0922	30 plates	

Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (ISO 21528) (Contact Plate)

Medium for the enumeration of Enterobacteriaceae. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Bile Salts Mixture	1.5
Crystal Violet	0.002
Neutral Red	0.03
D(+)-Glucose	10.0
Yeast Extract	3.0
Gelatin Peptone	7.0
Sodium Chloride	5.0
Agar	20.5
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
433745.0922	30 plates	



PREPARED PLATES (Ø 90 mm)

Bile Esculin Azide Agar (ISO 7899-2:2000) (Prepared Plate (Ø 90 mm))

Medium for the presumptive identification of Enterococci according to ISO 7899-2:2000. NC: 3821 00 00

HAZARDOUS:



H: H302 • H412
P: P264 • P270 • P273 • P301+P312 • P330 • P501

SPECIFICATIONS	
Composition (g/L):	
Ox Bile	10.0
Esculin	1.0
Sodium Azide	0.15
Yeast Extract	5.0
Iron(III) Citrate	0.5
Peptone	3.0
Sodium Chloride	5.0
Tryptone	17.0
Agar	15.0
pH	7.1 ± 0.2

Product code	Pack sizes	Units box
455523.0922	20 plates	

Cetrimide Agar (Ph. Eur.) (Prepared Plate (Ø 90 mm))

Culture medium for the enumeration of *Pseudomonas aeruginosa*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Cetrimide	0.3
Glycerol	10.0
Magnesium Chloride	1.4
Gelatin Peptone	20.0
Potassium Sulphate	10.0
Agar	13.6
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
456256.0922	20 plates	



Legionella Selective Agar (ISO 11731:1998)
(Prepared Plate (Ø 90 mm))
Product code 455378.09181 (120 plates)

Legionella Selective Agar (ISO 11731:1998) (Prepared Plate (Ø 90 mm))

Medium for the cultivation and isolation of *Legionella species*. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
ACES Buffer	10.0
Charcoal Activated	2.0
Cycloheximide	0.08
L-Cysteine Chloride	0.4
Yeast Extract	10.0
Glycine	3.0
Ferric Pyrophosphate	0.25
α-Ketoglutarate	1.0
Polymixin B Sulfate	80000 UI
Potassium Hydroxide	2.8
Vancomycin	0.001
Agar	16.0
pH	6.9 ± 0.2

Product code	Pack sizes	Units box
455378.09181	120 plates	

Nutrient Agar (ISO 6579, ISO 10273, ISO 19250) (Prepared Plate (Ø 90 mm))

Medium for enumeration of organisms in water. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Meat Extract	3.0
Meat Peptone	5.0
Agar	12.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
453792.0922	20 plates	

Plate Count Agar (Prepared Plate (Ø 90 mm))

Culture medium for the enumeration of microorganisms. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	2.5
D(+)-Glucose	1.0
Casein Peptone	5.0
Agar	15.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
453799.0922	20 plates	

**Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.)
(Prepared Plate (Ø 90 mm))**

Medium for the cultivation and enumeration of fungi and yeasts.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	40.0
Chloramphenicol	0.05
Casein Peptone	5.0
Meat Peptone	5.0
Agar	15.0
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
453842.0922	20 plates	

**Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.)
(irradiated) (Prepared Plate (Ø 90 mm))**

Medium for the cultivation and enumeration of fungi and yeasts.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
D(+)-Glucose	40.0
Chloramphenicol	0.05
Casein Peptone	5.0
Meat Peptone	5.0
Agar	15.0
pH	5.6 ± 0.2

Product code	Pack sizes	Units box
456213.0922	20 plates	

**Tryptone Soy Agar (TSA) (Ph. Eur.)
(Prepared Plate (Ø 90 mm))**

Medium for the cultivation of a wide variety of microorganisms.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Soy Peptone	5.0
Casein Peptone	15.0
Sodium Chloride	5.0
Agar	15.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
453819.0922	20 plates	

**TSA-Tween-Lecithin-Agar (Ph. Eur.)
(Prepared Plate (Ø 90 mm))**

Medium for detection and enumeration of a wide range of microorganisms and ability to neutralize the antibacterial activity of some bactericides. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Polisorbate 80	5.0
Lecithin	0.7
Histidine	1.0
Casein Peptone	15.0
Soy Peptone	5.0
Sodium Chloride	5.0
Sodium Thiosulfate	0.5
Agar	15.0
pH	7.3 ± 0.2

Product code	Pack sizes	Units box
455095.0922	20 plates	

**Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.)
(ISO 21528) (Prepared Plate (Ø 90 mm))**

Culture medium for the cultivation and enumeration of Enterobacteriaceae. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Bile Salts Mixture	1.5
Crystal Violet	0.002
Neutral Red	0.03
D(+)-Glucose	10.0
Yeast Extract	3.0
Gelatin Peptone	7.0
Sodium Chloride	5.0
Agar	13.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
453745.0922	20 plates	

PREPARED TUBES

**Tryptone Yeast Extract Agar (ISO 6222:1999)
(Prepared Tubes)**

Medium for the enumeration of microorganisms in water according to ISO 6222:1999. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Yeast Extract	3.0
Tryptone	6.0
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
466106.0922	20 tubes	

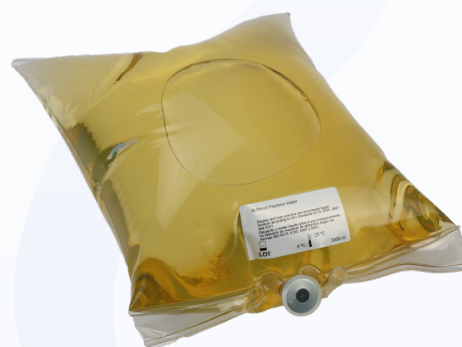
PREPARED BOTTLES

Buffered Peptone Water (ISO 6579, ISO 22964, ISO 6887, DIN 10181, 10160) (Prepared Bottles)

Diluent agent to homogenize samples in microbiological analysis.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Casein Peptone	10.0
Sodium Chloride	5.0
di-Sodium Phosphate 12-hydrate	9.0
mono-Potassium Phosphate	1.5
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
493795.0981	3 x 3 L	



Buffered Peptone Water (ISO)
Product code 493795.0981 (3 x 3 L)

Fraser 1/2 Listeria Broth (ISO 11290-1:1996) (Prepared Bottles)

Primary enrichment broth for *Listeria monocytogenes*.
NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Esculin	1.0
Yeast Extract	5.0
Lithium Chloride	3.0
Potassium di-Hydrogen Phosphate	1.35
Meat Peptone	5.0
Sodium Chloride	20.0
di-Sodium Phosphate	12.0
Tryptone	5.0
Meat Extract	5.0
Ammonium Iron(III) Citrate	0.5
Nalidixic Acid	0.01
Acryflavine	0.012
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
496269.0979	10 x 225 mL	

Peptone Water with neutralizing agents (Ph. Eur.) (Prepared Bottles)

Neutralising solution in the dilution of samples with antimicrobial agents. NC: 3821 00 00

SPECIFICATIONS	
Composition (g/L):	
Casein Peptone	1.00
Lecithin (egg)	0.7
Histidine	1.0
Potassium di-Hydrogen Phosphate	3.56
Sodium Chloride	4.30
di-Sodium Hydrogen Phosphate	7.23
Sodium Thiosulfate	0.5
Tween 80	5.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
495425.0932	1 x 450 mL	

DIP SLIDES FOR HYGIENE CONTROL

Slide PCA/PCA

Culture medium for the total enumeration of aerobes. NC: 3821 00 00

SPECIFICATIONS

Composition (g/L):

Tryptone	5.0
Yeast Extract	2.5
D(+)-Glucose	1.0
TTC	0.1
di-Sodium Phosphate	1.0
Phosphatidylcholine	0.03
L-Histidine	0.01
Sodium Thiosulfate	0.078
Tween 80	0.3
Agar	15.0
pH	7.0 ± 0.2

Product code	Pack sizes	Units box
435895.0922	20 units	

Slide PCA/RB

Culture medium for the total enumeration of aerobes and for the enumeration of fungi and yeasts. NC: 3821 00 00

SPECIFICATIONS

Composition (g/L) (Side 1):

Tryptone	5.0
Yeast Extract	2.5
D(+)-Glucose	1.0
TTC	0.1
di-Sodium Phosphate	1.0
Phosphatidylcholine	0.03
L-Histidine	0.01
Sodium Thiosulfate	0.078
Tween 80	0.3
Agar	15.0
pH	7.0 ± 0.2

Composition (g/L) (Side 2):

Soy Peptone	5.0
D(+)-Glucose	10.0
Magnesium Sulfate	0.5
Rose Bengal	0.05
Chloramphenicol	0.1
di-Sodium Phosphate	1.0
Phosphatidylcholine	0.03
L-Histidine	0.01
Sodium Thiosulfate	0.078
Tween 80	0.3
Agar	15.0
pH	7.2 ± 0.2

Product code	Pack sizes	Units box
435896.0922	20 units	

Because of the continuous updating of our catalog of products and presentations, kindly confirm product availability, through our website.

Slide PCA/VRBG

Culture medium for the total enumeration of aerobes and enterobacteria. NC: 3821 00 00

SPECIFICATIONS

Composition (g/L) (Side 1):

Tryptone	5.0
Yeast Extract	2.5
D(+)-Glucose	1.0
TTC	0.1
di-Sodium Phosphate	1.0
Phosphatidylcholine	0.03
L-Histidine	0.01
Sodium Thiosulfate	0.078
Tween 80	0.3
Agar	15.0
pH	7.0 ± 0.2

Composition (g/L) (Side 2):

Yeast Extract	3.0
Peptone	7.0
Bile Salts n° 3	1.5
D(+)-Glucose	10.0
Sodium Chloride	5.0
Neutral Red	0.03
Crystal Violet	0.002
di-Sodium Phosphate	1.0
Phosphatidylcholine	0.03
L-Histidine	0.01
Sodium Thiosulfate	0.078
Tween 80	0.3
Agar	15.0
pH	7.4 ± 0.2

Product code	Pack sizes	Units box
435897.0922	20 units	

ACCESSORIES

Analytical Funnel, sterilized, individually packed, 47 mm, 0.45 microns (Removable filter)

Product code	Pack sizes	Units box
AFW-045MC	50 units	

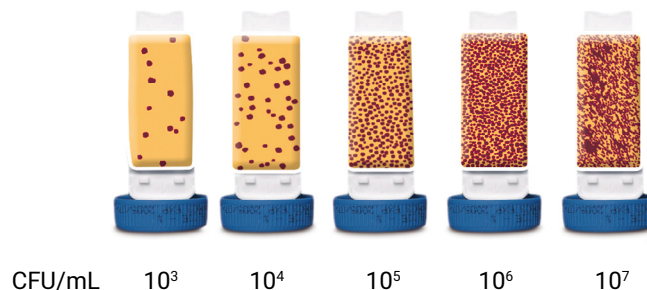


Dip Slides



PanReac AppliChem dip slides are a suitable, easy-to-use and cheap system for the Microbiological Hygiene Control of both surfaces and solutions. Each dip slide has two faces coated with agar-based medium, with a usable area of 12 cm² per face. These two faces can contain different media, thus meaning that twice as much information regarding microbial contamination can be obtained using a single device. The flexibility of the plastic strip allows samples to be taken at sites that are inaccessible to contact plates. They can also be used for the qualitative control of microbial contamination in liquids by simply immersing the dip slide in the sample.

You can store it at room temperature for up to six months. The dip slides can be used by untrained personnel due to ease of use. The results can be quantified after incubation under the indicated conditions. The dip slide range is suitable for the majority of Hygiene Control applications in both the food industry and other industrial applications.



Measuring microbial contamination using
PanReac AppliChem dip slides.
Total aerobic count on PCA+TTC (CFU/mL)

Analytical Funnels and Microbiological Monitors

Microbiological analysis systems based on filtering for use in industries related to food, soft drinks, beer, wines, water and the pharmaceutical industry.

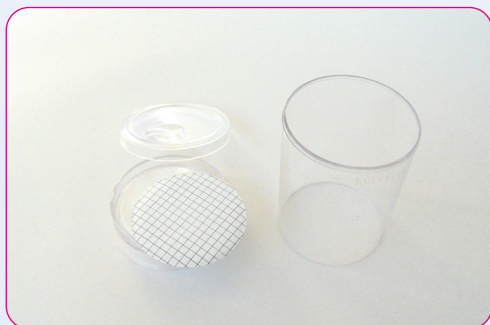


Analytical Funnels

The analytical funnels have a capacity of 100 mL and a removable membrane, ensuring flexibility for filtering and placing the filter on any culture medium plate.

Ideal for use in the pharmaceutical industry, particularly for monitoring of process water. Available in individual sterile container and in 0.45 microns.

Code AFW-045MC (50 units)



Monitors

The monitors are fitted with a stationary membrane next to the pad at the base of the funnel, forming an incubation unit, along with the cover. The monitors have a capacity of 100 mL and are used in combination with liquid culture medium. Ideal for use in laboratories for soft drinks, water, wines, etc.

Code FMW-045MC (50 units)

Oxidase Sticks



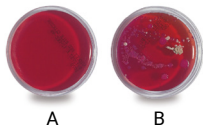
Contains 50 test strips used for the easy and rapid detection of the cytochrome oxidase enzyme in microbiological diagnosis. Unlike the basic laboratory test where the tetramethyl-p-phenylenediamine reagent is highly unstable, PanReac AppliChem oxidase sticks have a stabilised reagent on the pad with a greater stability.

Code 416444.2326

Surface Hygiene Control

Contact Plates

Enterobacteriaceae



Violet Red Bile Glucose Agar (VRBG) (Ph. Eur.) (ISO 21528)

Code 433745

Description:

Enterobacteriaceae form pink-red colonies and surrounded by a reddish halo of precipitation.

- A. Blank Plate.
- B. Contact surface. Incubation at 31°C/72 hours. Presence.

Fungi and yeasts



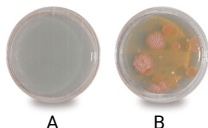
Sabouraud Glucose Agar+Chloramphenicol (Ph. Eur.)

Code 433842

Description:

Recommended medium for the control of fungi and yeasts on different surfaces. The presence of chloramphenicol inhibits bacterial growth, thus liberating development of fungi and yeast. Use of the Sabouraud medium supplemented with the antibiotic is recommended when there is a significant accompanying bacterial flora.

Aerobic microorganisms



TSA-Tween-Lecithin-Agar (Ph. Eur.)

Code 435095

Description:

Medium recommended by the European Pharmacopoeia for the total aerobic count. The presence of Lecithin and Tween neutralizes the antimicrobial activity of certain products.

- A. Blank Plate.
- B. Warehouse Incubation 37°C/72 hours. Presence.

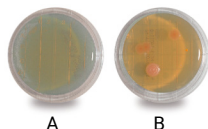


Plate Count Agar (PCA)

Code 433799

Description:

Medium recommended by APHA for enumeration of mesophilic aerobic bacteria.

- A. Blank Plate.
- B. Packing room (contact). Incubation a 37°C/72 hours. Presence.

Tryptone Soy Agar (TSA) (Ph. Eur.)

Code 433819

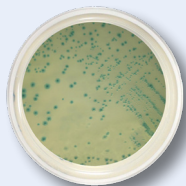




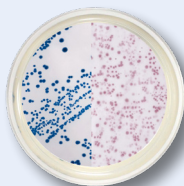
Chromogenic media

Industry application chart

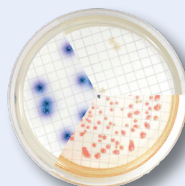
Product code	Product name	Supplement	Use	Reference Method	Microorganism	Meat & Fish	Water & Beverage	Dairy products	Bakery	Processed food	Beer industry	Waste-water	Cosmetic industry	Pharma industry
447153.0922	CCA Coliforms Chromogenic Agar (ISO 9308-1) (Prepared Plate (Ø 55 mm))		Selective detection	ISO 9308-1	<i>E. coli, coliforms</i>		●							
446910.0922	CCA Coliforms, Chromogenic Agar (Prepared Plate (Ø 55 mm))		Selective detection	SCO/778/2009 of 17 March 2009	<i>E. coli, coliforms</i>		●							
416109.1210	Chromogenic <i>E. coli</i> Agar (Dehydrated Culture Media)		Selective detection		<i>E. coli, coliforms</i>	●	●	●	●	●	●	●	●	
416110.1210	Chromogenic Salmonella Agar (Dehydrated Culture Media)		Isolation		<i>Salmonella</i>	●		●	●	●				●
416220.1210	TBX Agar (ISO 16649-2,3:2001) (Dehydrated Culture Media)		Selective detection / enumeration	ISO 16649-2,3	<i>E. coli</i>	●		●	●	●				
416891.1210	Listeria Chromogenic Agar (ISO 11290:2004) (Dehydrated Culture Media)	416893.02132 416894.02132	Selective detection / enumeration	ISO 11290-1	<i>Listeria monocytogenes</i>	●	●	●	●	●				



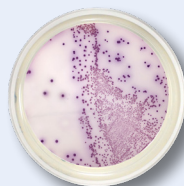
TBX Agar
(ISO 16649-2,3:2001)



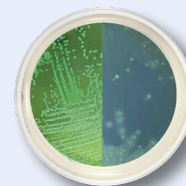
Chromogenic *E. coli* Agar



CCA Coliforms, Chromogenic Agar



Chromogenic Salmonella Agar



Listeria Chromogenic Agar (ISO 11290:2004)

