

A top-down view of a petri dish containing a variety of bacterial colonies. The colonies are circular and come in different colors, including yellow, orange, and red. Some are smooth, while others are more textured or have a fuzzy appearance. The background is a dark, reddish-purple gradient.

PanReac   
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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

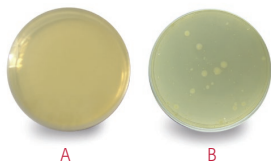
Parameter	Parametric value	Method	Recommended product
<i>Escherichia coli</i>	0 CFU in 100 ml	ISO 9308-1	CCA Coliforms Chromogenic Agar (ISO 9308-1:2014). According to ISO standard.
		SCO/778/2009	CCA Agar
Enterococci	0 CFU in 100 ml	ISO 7899-2	Slanetz Bartley Medium (ISO 7899-2:2000). According to ISO 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
<b>Colony count at 22 °C</b>			
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



## Trypstone Yeast Extract Agar (ISO 6222:1999)

Codes 466106 and 496106

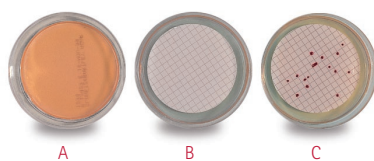
A - Clean drinking water (1 ml).

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 &lt;100 fcu/ml.

## Enterococci



## Slanetz Bartley Medium

Code 443812

## Description:

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

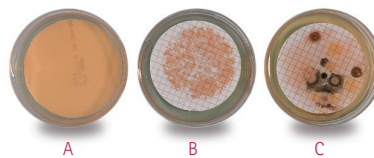
A - Blank Plate.

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.

## Sulfite Reducing Clostridia



## SPS Agar, Code 444125

## Description:

Sulfite-reducing clostridia form black colonies.

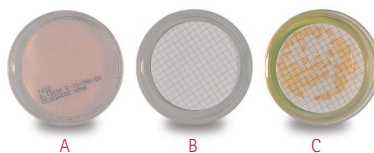
A - Blank Plate.

B - Water contaminated with *C. perfringens* ATCC 13124 (100 ml).

Anaerobic incubation at 37 °C/ 24 hours. Presence.

C - Water contaminated with *C. perfringens* ATCC 13124 (100 ml).

Anaerobic incubation at 37 °C/ 72 hours. Presence.

*Pseudomonas aeruginosa**Pseudomonas* CN Agar (EN ISO 16266) Code 443752

## Description:

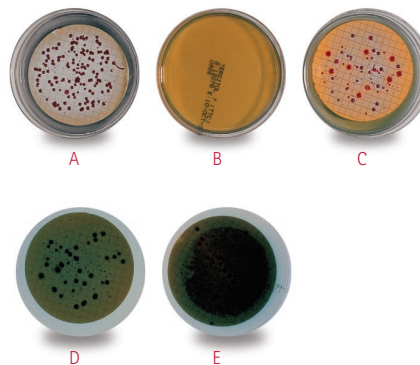
*P. aeruginosa* colonies in this medium are creamy white coloured and with mucosal appearance.

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.

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.

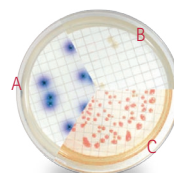
A - Water contaminated with *S. typhimurium* ATCC 14028 and *P. aeruginosa* ATCC 10145 (100 ml). Incubation at 37 °C/ 24 hours. Absence of coliforms.

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

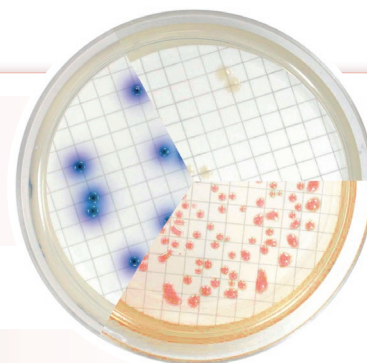
A - Water contaminated with *E. coli* ATCC 25922 and ATCC 8739. Incubation at 36 °C/ 21 hours. Presence.B - Water contaminated with *Salmonella enteritidis* ATCC 13076. Incubation at 36 °C/ 21 hours. Presence.C - Water contaminated with *Citrobacter freundii* ATCC 8090. Incubation at 36 °C/ 21 hours.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

## 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.

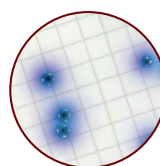
### Main advantages

- 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.

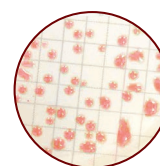


### Interpretation

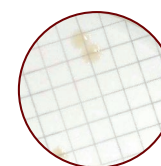
***E. coli*** >> Colonies from blue to violet  
**Coliforms** >> Pink salmon to red  
**Other bacteria (primarily Gram-negative)** >> Colourless (except those with a weak glucuronidase activity but not galactosidase, producing light blue or turquoise colonies).



*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.

### 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*.

### Composition (g/l)

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	



Code	Description	Package
417153.1210	CCA Coliforms Chromogenic Agar (ISO 9308-1) (Dehydrated Culture Media)	500 g
447153.0922	CCA Coliforms Chromogenic Agar (ISO 9308-1) (Prepared Plate (Ø 55 mm))	30 plates
<b>Also available CCA Agar according to Spanish regulation SCO/778/2009, of 17 March (not ISO)</b> 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))	30 plates
<b>Auxiliary Reagent</b>		
252908.1608	Kovacs' Reagent	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<sup>2</sup>**MAXIMUM LIMIT OF IMPURITIES**

Loss on drying at 105°C ..... 20 %

Residue on ignition ..... 6.5 %

Order code	Package	Units/Box st.
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<sup>2</sup>**MAXIMUM LIMIT OF IMPURITIES**

Loss on drying at 105°C ..... 12 %

Residue on ignition ..... 5.0 %

Order code	Package	Units/Box st.
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<sup>2</sup>**MAXIMUM LIMIT OF IMPURITIES**

Loss on drying at 105°C ..... 20 %

Residue on ignition ..... 5 %

Order code	Package	Units/Box st.
401792.1210	500 g 	6
401792.0914	5 kg 	

**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 %

Order code	Package	Units/Box st.
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<sub>4</sub>) ..... 3.5%

Order code	Package	Units/Box st.
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 %

Order code	Package	Units/Box st.
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 %

Order code	Package	Units/Box st.
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 %

Order code	Package	Units/Box st.
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 %

Order code	Package	Units/Box st.
403687.1210	500 g 	6

**DEHYDRATED CULTURE MEDIA AND SUPPLEMENTS**

(See also Prepared Media)

**Acetamide Broth (EN ISO 16266)****(Dehydrated Culture Media)**Culture medium for the confirmation of *Pseudomonas aeruginosa*.

according to EN ISO 16266

NC: 3821 00 00

HAZARDOUS:



H: H351 • P: P201 • P202 • P281 • P308+P313 • P405 • P501

**SPECIFICATIONS:**

Composition (g/l):


Potassium di-Hydrogen Phosphate ..... 1.0

Magnesium Sulfate ..... 0.2

Acetamide ..... 2.0

Sodium Chloride ..... 0.2

pH: 7.0 ± 0.5

Order code	Package	Units/Box st.
416259.1210	500 g 	6

**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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
413772.1210	500 g	6

**Brilliant Green Agar (Dehydrated Culture Media)**

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

**SPECIFICATIONS:**

**Composition (g/l):**

Brilliant Green .....	0.0125
Yeast Extract .....	3.0
Lactose .....	10.0
Peptones (meat and casein) .....	10.0
Phenol Red .....	0.08
Saccharose .....	10.0
Sodium Chloride .....	5.0
Agar .....	20.0

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
413823.1210	500 g	6

**Brilliant Green Bile 2% Broth (ISO 4831, ISO 4832)**

**(Dehydrated Culture Media)**

Culture medium for the detection and enumeration of Coliforms.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Ox Bile, dehydrated .....	20.0
Brilliant Green .....	0.0133
Lactose .....	10.0
Gelatin Peptone .....	10.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
413748.1210	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 .....

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
414944.1210	500 g	6
414944.0914	5 kg	



Buffered Peptone Water (ISO)  
code 413795.1210

**CCA Coliforms Chromogenic Agar (ISO 9308-1) (Dehydrated Culture Media)**

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
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

Order code	Package	Units/Box st.
417153.1210	500 g 	6

**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

Order code	Package	Units/Box st.
416256.1210	500 g 	6

**Chapman TTC (Tergitol 7) Agar (ISO 9308-1:2000) (Dehydrated Culture Media)**

Culture medium for the detection and enumeration of Coliforms.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Bromothymol Blue.....	0.05
Meat Extract.....	5.0
Yeast Extract.....	6.0
Lactose.....	20.0
Meat Peptone.....	10.0
Sodium Heptadecyl Sulfate.....	0.1
Agar.....	15.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
414955.1210	500 g 	6

**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

Order code	Package	Units/Box st.
416109.1208	100 g 	6
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

Order code	Package	Units/Box st.
416110.1210	500 g 	6


**CLED Medium (Dehydrated Culture Media)**

Culture medium for the enumeration and presumptive identification of microorganisms from urine. NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Bromothymol Blue.....	0.02
L-Cystine.....	0.128
Meat Extract.....	3.0
Lactose.....	10.0
Casein Peptone.....	4.0
Gelatin Peptone.....	4.0
Agar.....	15.0

pH: 7.3 ± 0.2

Order code	Package	Units/Box st.
413753.1210	500 g 	6

**DNase Agar (Dehydrated Culture Media)**


Culture medium for the differentiation of *Staphylococcus* species and *Serratia marcescens*, based on their production of deoxyribonuclease.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Deoxyribonucleic Acid.....	2.0
Casein Peptone.....	15.0
Soy Peptone.....	5.0
Sodium Chloride.....	5.0
Agar.....	15.0

pH: 7.3 ± 0.2

Order code	Package	Units/Box st.
413759.1210	500 g 	6

**Egg Yolk Emulsion (Supplement)**

Additive for culture media for detection of lecithinase activity.



NC: 3821 00 00

Order code	Package	Units/Box st.
414722.1608	100 ml 	6

**Egg Yolk Tellurite Emulsion (Supplement)**

Additive for culture media for detection of lecithinase activity.

NC: 3821 00 00

Order code	Package	Units/Box st.
414723.1607	50 ml 	6
414723.1608	100 ml 	6

**Eosin Methylene Blue Agar (EMB) (Dehydrated Culture Media)**


Culture medium for the isolation of Gram-negative enteric bacteria.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Eosin Yellowish.....	0.4
Methylene Blue.....	0.065
Lactose.....	5.0
Bacteriological Peptone.....	10.0
di-Potassium Hydrogen Phosphate.....	2.0
Saccharose.....	5.0
Agar.....	13.5

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
413762.1210	500 g 	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

Order code	Package	Units/Box st.
416112.1210	500 g	6

**Fraser Listeria Selective Enrichment (Supplement)**

Supplement used for the determination of *Listeria monocytogenes*.

NC: 3821 00 00

**HAZARDOUS:**



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

**SPECIFICATIONS:**

**Composition (mg/vial):**

Ammonium Iron(III) Citrate.....	250.0
Sodium Nalidixate.....	10.0
Acryflavine.....	12.5

Order code	Package	Units/Box st.
416113.02132	10 vials	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 (mg/vial):**

Ammonium Iron(III) Citrate.....	250.0
Sodium Nalidixate.....	5.0
Acryflavine.....	6.2

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
414956.1210	520 g	6

**Hektoen Enteric Agar (ISO 21567) (Dehydrated Culture Media)**

Culture medium for the isolation and differentiation of *Salmonella* and *Shigella*.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Ammonium Iron(III) Citrate.....	1.5
Bromothymol Blue.....	0.064
Yeast extract .....	3.0
Fuchsin Acid.....	0.1
Lactose .....	12.0
Meat Peptone.....	12.0
Saccharose.....	12.0
Bile Salts.....	9.0
D(-)-Salicin.....	2.0
Sodium Chloride.....	5.0
Sodium Thiosulfate.....	5.0
Agar.....	14.0

pH: 7.5 ± 0.2

Order code	Package	Units/Box st.
413768.1210	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

Order code	Package	Units/Box st.
413775.1210	500 g	6

**Kligler Iron Agar (Dehydrated Culture Media)**

Medium for the identification of Gram-negative enteric bacilli.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Ammonium Iron(III) Citrate.....	0.5
D(+)-Glucose .....	1.0
Lactose.....	10.0
Mixture of Peptones.....	20.0
Phenol Red .....	0.025
Sodium Chloride.....	5.0
Sodium Thiosulfate.....	0.5
Agar.....	15.0

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
413769.1210	500 g	6

**Lactosed Broth (Dehydrated Culture Media)**

Medium for the detection of Coliforms, specially *E. coli*.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Lactose.....	5.0
Meat Extract .....	3.0
Gelatin Peptone.....	5.0

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
413776.1210	500 g	6

**Legionella Agar (BCYEx)**

(see Prepared Media: BCYEx Agar)




**Lethen Broth (modified) (Dehydrated Culture Media)**

Diluent with neutralizing agents for use in the microbiological testing of cosmetics. 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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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 Glycerophosphate .....	1.0
Magnesium Sulfate .....	0.5
X-Glucoside .....	0.05
Bacteriological Agar .....	13.5

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
414698.1210	500 g	6

#### Maximum Recovery Diluent (MRD) (ISO 6887) (Dehydrated Culture Media)

General diluent for a wide variety of microorganisms.

NC: 3821 00 00

##### SPECIFICATIONS:

##### Composition (g/l):

Casein Peptone.....	1.0
Sodium Chloride.....	8.5

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
416265.1210	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 D

(see Lactosed Broth)

#### Medium G

(see MacConkey Broth)

#### Medium H

(see MacConkey Agar)

#### Medium K

(see XLD Medium)

#### Medium L

(see Brilliant Green Agar)

#### Medium M

(see Triple Sugar Iron Agar)

#### Medium N

(see Cetrimide Agar)

#### Medium O

(see Baird-Parker Agar Base)

#### Medium S

(see R2A Agar)

#### 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.....	0.001
Nicotinic Acid.....	0.001
Pantothenic Acid.....	0.001
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

Order code	Package	Units/Box st.
416895.1210	500 g	6

#### MRS Agar (ISO15214) (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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
413792.1210	500 g	6

**Nutrient Agar (EN ISO 16266)(Dehydrated Culture Media)**

Medium for the differential subculture of

*Pseudomonas aeruginosa* according to EN ISO 16266.

NC: 3821 00 00

## SPECIFICATIONS:

## Composition (g/l):

Peptone.....	5.0
Meat Extract.....	1.0
Yeast Extract.....	2.0
Sodium Chloride.....	5.0
Agar.....	15.0

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
416261.1210	500 g	6

**Nutrient Broth (Dehydrated Culture Media)**

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

## ESPECIFICACIONES:

## Composición (g/l):

Meat Extract.....	3.0
Gelatin Peptone.....	5.0

pH: 6.8 ± 0.2

Order code	Package	Units/Box st.
413793.1210	500 g	6

**OGYE Agar Base (Dehydrated Culture Media)**

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

## SPECIFICATIONS:

## Composition (g/l):

Yeast extract.....	5.0
D(+)-Glucose.....	10.0
Agar.....	15.0

pH: 6.5 ± 0.2

Order code	Package	Unid. caja estándar
414958.1210	500 g	6

**Orange Serum Agar (Dehydrated Culture Media)**

Culture medium for the isolation of acid tolerant microorganisms

in fruit juices. NC: 3821 00 00

## SPECIFICATIONS:

## Composition (g/l):

Casein Peptone.....	10.0
Yeast Extract.....	3.0
Orange Extract.....	5.0
Dextrose.....	4.0
Potassium di-Hydrogen Phosphate.....	3.0
Agar.....	15.0

pH: 5.5 ± 0.2

Order code	Package	Units/Box st.
416276.1210	500 g	6

**Oxidase Sticks**

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

## SPECIFICATIONS:

## Composition (per stick):

Tetramethyl-p-phenylenediamine hydrochloride.....8% (p/v)

Order code	Package	Units/Box st.
416444.2326	50 sticks	6

**PALCAM Listeria Agar Base (Dehydrated Culture Media)**Medium for the selective isolation, cultivation and differentiation of *Listeria monocytogenes*.

NC: 3821 00 00

## HAZARDOUS:



H: H319 • H315 • P: P264 • P280 • P302+P352 • P305+P351+P338 • P321 • P501 • P332+P313 • P337+P313 • P362

## SPECIFICATIONS:

## Composition (g/l):

Columbia Agar Base.....	39.0
Yeast extract.....	3.0
Dextrose.....	0.5
Esculin.....	0.8
Ammonium Iron(III) Citrate.....	0.5
Mannitol.....	10.0
Phenol Red.....	0.08
Lithium Chloride.....	15.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
415380.1210	500 g	6

#### PALCAM Listeria Selective Enrichment (Supplement)

Additive for the preparation of PALCAM Listeria Agar Base.

NC: 3821 00 00

HAZARDOUS:

 H: H318 • H412 • P: P273 • P280 • P305+P351+P338 • P310 • P501

SPECIFICATIONS:

Composition (mg/vial):

Polymixin B Sulfate..... 5.0  
Ceftazidim..... 10.0  
Acryflavine..... 2.5

Order code	Package	Units/Box st.
416116.02132	10 vials 	6

#### PCA

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

#### Peptone of Casein-Glucose-Yeast Extract Agar

(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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
413752.1210	500 g 	6

#### R2A Agar (Ph. Eur.) (Dehydrated Culture Media)

Medium for the enumeration of heterotrophic bacteria in water according to Ph. Eur.

NC: 3821 00 00

SPECIFICATIONS:

Composition (g/l):

Proteose Peptone..... 0.5

Casein Hydrolyzed..... 0.5

Yeast Extract..... 0.5

Dextrose..... 0.5

Starch..... 0.5


Sodium Pyruvate..... 0.3

di-Potassium Hydrogen Phosphate..... 0.3

Magnesium Sulfate..... 0.024

Agar..... 15.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
416197.1210	500 g 	6

#### Rappaport-Vassiliadis (RVS) Broth (ISO 6579, ISO 19250) (Dehydrated Culture Media)

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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
414855.1210	500 g 	6

#### RPF Selective Enrichment (ISO-FDIS 6888-2) (Supplement)

Additive used for the detection of coagulase positive *Staphylococcus*.

NC: 3821 00 00

SPECIFICATIONS:

Composition (per vial):

Rabbit Plasma..... 2.5 ml

Bovine Fibrinogen..... 500 mg

Trypsin Inhibitor..... 2.5 mg

Potassium Tellurite..... 2.5 mg

Order code	Package	Units/Box st.
416272.02132	10 vials 	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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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413842.1210	500 g 	6
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**Glucose Sabouraud Broth (Ph. Eur.)  
(Dehydrated Culture Media)**

Culture medium for antibiotic effectiveness test and in fungi and yeast cultures.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

D(+)-Glucose.....	20.0
Mixture of Peptic Digest of Animal Tissue and Pancreatic Digest of Casein (1:1).....	10.0

pH: 5.6 ± 0.2

Order code	Package	Units/Box st.
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413804.1210	500 g 	6
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**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

Order code	Package	Units/Box st.
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413805.1210	500 g 	6
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**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.....	4.00
L(-)-Cystine.....	0.01
Lactose.....	4.00
Mixture of Peptones.....	5.00
tri-Sodium Phosphate.....	10.00

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
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413809.1210	500 g 	6
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**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

Order code	Package	Units/Box st.
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413812.1210	500 g 	6
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**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

Order code	Package	Units/Box st.
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414125.1210	500 g 	6
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**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

Order code	Package	Units/Box st.
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413799.1210	500 g 	6
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**Staphylococcus according to Baird-Parker Selective Agar  
(see Baird-Parker Agar Base)****Sterility Test Broth**

(see Thioglycollate Liquid Medium)

**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-Glucuronide.....	0.075
Agar.....	15.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
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416220.1210	500 g 	6
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#### TCBS Cholera Medium (Dehydrated Culture Media)

Medium for the cultivation and isolation of *Vibrio cholerae* and *Vibrio parahaemolyticus*.

NC: 3822 00 00

##### SPECIFICATIONS:

##### Composition (g/l):

Bromothymol Blue	0.04
Thymol Blue	0.04
Dried Bile	5.0
Yeast Extract	5.0
Iron(III) Citrate	1.0
Meat Peptone	5.0
Casein Peptone	5.0
Saccharose	20.0
tri-Sodium Citrate	10.0
Sodium Chloride	10.0
Sodium Chololate	3.0
Sodium Thiosulfate	10.0
Agar	14.0

pH: 8.6 ± 0.2

Order code	Package	Units/Box st.
413817.1210	500 g	6

#### Tergitol 7 Agar

(see Chapman TTC (Tergitol 7) Agar)

#### Thioglycollate Liquid Medium (Ph. Eur., USP, ISO 7937) (Dehydrated Culture Media)

Medium for the cultivation of aerobic and anaerobic organisms in the performance of sterility tests.

NC: 3821 00 00

##### SPECIFICATIONS:

##### Composition (g/l):

Sodium Thioglycollate	0.5
L-Cystine	0.5
Yeast Extract	5.0
D(+)-Glucose	5.5
Enzym Digest of Casein	15.0
Resazurin	0.001
Sodium Chloride	2.5
Agar	0.75

pH: 7.1 ± 0.2

Order code	Package	Units/Box st.
413912.1210	500 g	6

#### Triple Sugar Iron Agar (Dehydrated Culture Media)

Medium for the differentiation of Enterobacteriaceae.

NC: 3821 00 00

##### SPECIFICATIONS:

##### Composition (g/l):

Ammonium Iron(III) Citrate	0.3
D(+)-Glucose	1.0
Meat Extract	3.0
Yeast Extract	3.0
Lactose	10.0
Saccharose	10.0
Peptone Mixture (Meat/Casein)	20.0
Phenol Red	0.025
Sodium Chloride	5.0
Sodium Thiosulfate	0.3
Agar	12.0

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
413771.1210	500 g	6

#### 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

Order code	Package	Units/Box st.
413819.1210	500 g	6
413819.0914	5 kg	

#### 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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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 Tryptone Soy Broth (TSB))

#### TSC Agar Base (ISO 14189, 7937) (Dehydrated Culture Media)

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
Agar	15.0

pH: 7.6 ± 0.2

Order code	Package	Units/Box st.
415576.1210	500 g	6

**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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
413746.1210	500 g 	6

**VRBG Agar**

(see Violet Red Bile Glucose Agar (VRBG))

**VRBL Agar**

(see Violet Red Bile Lactose Agar (VRBL))

**WL Nutrient Agar (Dehydrated Culture Media)**


Culture medium for the determination of microbial flora in the brewing processes and other fermentation industries.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Calcium Chloride.....	0.125
Yeast Extract.....	4.0
D(+)-Glucose.....	50.0
Iron(III) Chloride.....	0.0025
Magnesium Sulfate.....	0.125
Manganese(II) Sulfate.....	0.0025
Potassium Chloride.....	0.425
Potassium di-Hydrogen Phosphate.....	0.55
Tryptone.....	5.0
Bromocresol Green.....	0.022
Agar.....	15.0

pH: 5.5 ± 0.2

Order code	Package	Units/Box st.
413791.1210	500 g 	6

**XLD Agar (ISO 6579, ISO 19250, ISO 21567) (Dehydrated Culture Media)**Culture medium for the isolation of *Salmonella* and*Shigella* according to ISO 6579:2002

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Ammonium Iron(III) Citrate.....	0.8
Yeast Extract.....	3.0
Lactose.....	7.5
L-Lysine.....	5.0
Phenol Red.....	0.08
Saccharose.....	7.5
Sodium Chloride.....	5.0
Sodium Deoxycholate.....	1.0
Sodium Thiosulfate.....	6.8
D(+)-Xylose.....	3.75
Agar.....	13.5

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
416270.1210	500 g 	6

**XLD Medium (Ph. Eur.) (Dehydrated Culture Media)**Culture medium for the isolation of *Salmonella* and *Shigella*.

NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Ammonium Iron(III) Citrate.....	0.8
Yeast Extract.....	3.0
Lactose.....	7.5
L-Lysine.....	5.0
Phenol Red.....	0.08
Saccharose.....	7.5
Sodium Chloride.....	5.0
Sodium Deoxycholate.....	2.5
Sodium Thiosulfate.....	6.8
D(+)-Xylose.....	3.5
Agar.....	13.5

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
413826.1210	500 g 	6

**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

Order code	Package	Units/Box st.
446910.0922	30 plates 	6

**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
6-Chloro-3-indoxyl-β-D-galactopyranoside .....	0.20
IPTG .....	0.10
Agar .....	13.00

pH: 6.8 ± 0.2

Order code	Package	Units/Box st.
447153.0922	30 plates	6

**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

Order code	Package	Units/Box st.
445463.0922	12 plates	6
445463.09180	30 plates	6

**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

Order code	Package	Units/Box st.
443792.0922	30 plates	6

**Pseudomonas CN (EN ISO 16266) (Prepared Plate (Ø 55 mm))**

Medium for the enumeration of *Pseudomonas aeruginosa*.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Cetrimide .....	0.2
Nalidixic Acid .....	0.015
Glycerol .....	10.0
Magnesium Chloride .....	1.4
Casein Peptone .....	10.0
Gelatin Peptone .....	16.0
Potassium Sulfate .....	10.0
Agar .....	11.0

pH: 7.2±0.2

Order code	Package	Units/Box st.
443752.0922	30 plates	6

**R2A Agar (Ph. Eur.) (Prepared Plate (Ø 55 mm))**

Medium for the enumeration of heterotrophic bacteria in water according to Ph. Eur.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Proteose Peptone .....	0.5
Casein Peptone .....	0.5
Yeast Extract .....	0.5
Dextrose .....	0.5
Starch soluble .....	0.5
Sodium Pyruvate .....	0.3
di-Potassium Hydrogen Phosphate .....	0.3
Magnesium Sulfate .....	0.024
Agar .....	15.0

pH: 7.2 ± 0.2

Order code	Package	Units/Box st.
446197.0922	30 plates	6

**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

Order code	Package	Units/Box st.
443812.0922	30 plates	6

**SPS Agar (Prepared Plate (Ø 55 mm))**

Medium for the enumeration of sulfite-reducing clostridia.

NC: 3821 00 00

**SPECIFICATIONS:**

**Composition (g/l):**

Sodium Sulfite .....	0.5
Polymixin B Sulfate .....	0.01
Sodium Sulfadiazine .....	0.12
Yeast Extract .....	10.0
Iron(III) Citrate .....	0.5
Casein Peptone .....	15.0
Agar .....	13.90

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
444125.0922	30 plates	6

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

Medium for the 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 Sulfate .....	0.1
2,3,5-Triphenyl-2H-Tetrazolium Chloride .....	0.025
Agar .....	17.0

pH: 7.5 ± 0.2

Order code	Package	Units/Box st.
444955.0922	30 plates	6



**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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
445576.0922	30 plates 	

**CONTACT PLATES FOR HYGIENE SURFACE CONTROL****Baird-Parker Agar (ISO 6888) (Contact Plate)**

Medium for the determination and the enumeration of Staphylococci. NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Egg Yolk Emulsion.....	47.0
Meat Extract.....	5.0
Yeast Extract.....	1.0
Glycine.....	12.0
Lithium Chloride.....	5.0
Potassium Tellurite.....	0.1
Sodium Pyruvate.....	10.0
Tryptone.....	10.0
Agar.....	20.5

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
433744.0922	30 plates 	

**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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
433745.0922	30 plates 	

**PREPARED PLATES (Ø 90 mm)****Baird-Parker Agar (ISO 6888) (Prepared Plate (Ø 90 mm))**

Medium for the determination and the enumeration of Staphylococci. NC: 3821 00 00

**SPECIFICATIONS:****Composition (g/l):**

Egg Yolk Emulsion.....	47.0
Meat Extract.....	5.0
Yeast Extract.....	1.0
Glycine.....	12.0
Lithium Chloride.....	5.0
Potassium Tellurite.....	0.1
Sodium Pyruvate.....	10.0
Tryptone.....	10.0
Agar.....	20.0

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
453744.0922	20 plates 	

**BCYE without Cysteine Agar (ISO 11731) (Prepared Plate (Ø 90 mm))**

Culture medium for the cultivation and isolation of *Legionella*.

NC: 3821 00 00

SPECIFICATIONS:

Composition (g/l):

ACES.....	10.0
Charcoal Activated.....	2.0
Yeast Extract.....	10.0
Ferric Pyrophosphate.....	0.25
α-Ketoglutarate.....	1.0
Potassium Hydroxide.....	2.8
Agar.....	15.0

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
456267.0922	20 plates 	

**BCYEx Agar (ISO 11731:1998) (Prepared Plate (Ø 90 mm))**

Culture medium for the cultivation and isolation of *Legionella*.

NC: 3821 00 00

SPECIFICATIONS:

Composition (g/l):

ACES.....	10.0
Charcoal Activated.....	2.0
L-Cysteine Chloride.....	0.4
Yeast Extract.....	10.0
Ferric Pyrophosphate.....	0.25
α-Ketoglutarate.....	1.0
Potassium Hydroxide.....	2.8
Agar.....	15.0

pH: 6.9 ± 0.2

Order code	Package	Units/Box st.
456266.0922	20 plates 	

**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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
456256.0922	20 plates 	6

**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

Order code	Package	Units/Box st.
455378.0922	20 plates 	6
455378.09181	120 plates 	

**MacConkey Agar (Ph. Eur., ISO 21567) (Prepared Plate (Ø 90 mm))**

Culture medium for Coliforms.

NC: 3821 00 00

SPECIFICATIONS:

Composition (g/l):

Lactose.....	10.0
Peptones (meat and casein).....	3.0
Neutral Red.....	0.03
Bile Salts n° 3.....	1.5
Gelatin Peptone.....	17.0
Sodium Chloride.....	5.0
Crystal Violet.....	0.001
Agar.....	15.0

pH: 7.1 ± 0.2

Order code	Package	Units/Box st.
453779.0922	20 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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
453799.0922	20 plates 	

**Rose Bengal Chloramphenicol Agar (Prepared Plate (Ø 90 mm))**

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
Peptone.....	5.0
Potassium di-Hydrogen Phosphate.....	1.0
Agar.....	15.5

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
454855.0922	20 plates 	

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

Medium for the cultivation and enumeration of fungi and yeasts.

NC: 3821 00 00

## SPECIFICATIONS:

D(+)-Glucose .....	40.0
Casein Peptone .....	5.0
Meat Peptone .....	5.0
Agar .....	15.0

pH: 5.6 ± 0.2

Order code	Package	Units/Box st.
453802.0922	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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
453745.0922	20 plates 	

**XLD Agar (ISO 6579, ISO 19250, ISO 21567)****(Prepared Plate (Ø 90 mm))**Culture medium for the isolation of *Salmonella* and *Shigella*.

NC: 3821 00 00

## SPECIFICATIONS:

## Composition (g/l):

Ammonium Iron(III) Citrate .....	0.8
Yeast Extract .....	3.0
Lactose .....	7.5
L-Lysine .....	5.0
Phenol Red .....	0.08
Saccharose .....	7.5
Sodium Chloride .....	5.0
Sodium Deoxycholate .....	1.0
Sodium Thiosulfate .....	6.8
D(+)-Xylose .....	3.75
Agar .....	15.0

pH: 7.4 ± 0.2

Order code	Package	Units/Box st.
456270.0922	20 plates 	

**PREPARED TUBES****SPS Agar (Prepared Tubes)**

Medium for the detection and enumeration of sulfite-reducing clostridia.


NC: 3821 00 00

## SPECIFICATIONS:

## Composition (g/l):

Sodium Sulfite .....	0.5
Polymixin B Sulfate .....	0.01
Sodium Sulfadiazine .....	0.12
Yeast Extract .....	10.0
Iron(III) Citrate .....	0.5
Casein Peptone .....	15.0
Agar .....	13.90

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
464125.0922	20 tubes 	

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


Medium for the enumeration of microorganism 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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
493795.0981	3 x 3 l	
493795.0922	10 x 100 ml	

**Buffered Sodium Chloride–Peptone solution (Ph. Eur.) (Prepared Bottles)**

Diluent agent to homogenize samples in microbiological analysis.

NC: 3504 00 90

SPECIFICATIONS:

Composition (g/l):

Casein Peptone.....	1.00
Potassium di-Hydrogen Phosphate.....	3.56
Sodium Chloride.....	4.30
di-Sodium Hydrogen Phosphate.....	7.23

pH: 7.0 ± 0.2

Order code	Package	Units/Box st.
494944.0922	10 x 90 ml	

**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

Order code	Package	Units/Box st.
496269.0979	10 x 225 ml	
496269.0981	3 x 3 l	

**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

Order code	Package	Units/Box st.
495425.0932	1 x 450 ml	

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

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

Order code	Package	Units/Box st.
496106.0922	10 x 100 ml	

**TSC Agar Base (ISO 14189, 7937) (Prepared Bottles)**

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
Agar.....	14.0

pH: 7.6 ± 0.2

Order code	Package	Units/Box st.
495576.0922	10 x 100 ml	



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



Egg Yolk Emulsion (Supplement)  
code 414722.1608

**DIP SLIDES FOR HYGIENE CONTROL**

**Slide PCA/PCA**

Culture medium for the total enumeration of aerobes.


NC: 3821 00 00

SPECIFICATIONS:

Composition (g/l) (Side 1 and 2):

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

Order code	Package	Units/Box st.
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

Order code	Package	Units/Box st.
435896.0922	20 units 	

**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

Order code	Package	Units/Box st.
435897.0922	20 units 	

**ACCESSORIES**


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

Order code	Package	Units/Box st.
AFW-045MC	50 units 	


**Microbiological Monitor, sterilized, individually packed, 47 mm, 0.45 microns (Welded fixed filter)**

Order code	Package	Units/Box st.
FMW-045MC	50 units 	

**2.5 L Anaerobiosis Jar**

Order code	Package	Units/Box st.
ANJARRMC	1 unit 	

**Mixed Esters membranes, 48,5 mm, 0,45 microns, sterile**

Order code	Package	Units/Box st.
ME-04548MC	100 filters 	



Mixed Esters membranes  
Code ME-04548MC



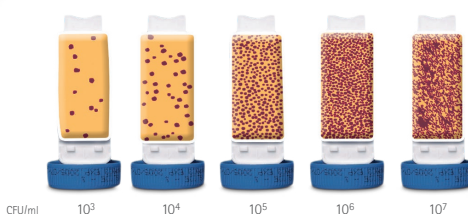
Anaerobiosis jar  
code ANJARRMC

## 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 cm<sup>2</sup> 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)**

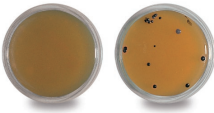
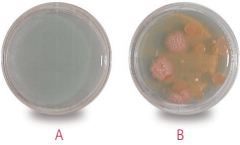
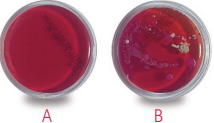
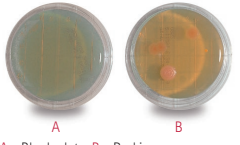

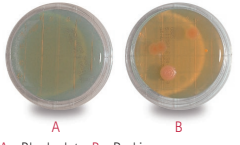


## Oxidase Sticks

**Code 416444.2326**

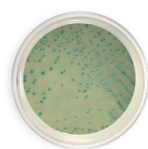
Contains 50 test strips used for the easy and rapid detection of the cytochrome-oxidase enzyme in microbiological diagnosis. Unlike the basic laboratory test where the tetramethyl-p-phenylenediamine reagent is highly unstable, PanReac AppliChem oxidase sticks have a stabilised reagent on the pad with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

## Surface Hygiene Control Contact Plates

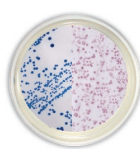
Staphylococci		Aerobic microorganisms	
	<b>Baird-Parker, Agar</b> Code 433744  Description: <i>S. aureus</i> forms black colonies with a clear halo due to lecithinase activity.		<b>TSA-Tween-Lecithin-Agar</b> (Ph. Eur.) Code 435095 Description: Medium recommended by the European Pharmacopoeia for the total aerobic count. The presence of Lecithin and Tween neutralizes the antimicrobial activity of certain products.
	<b>Violet Red Bile Glucose Agar (VRBG)</b> (Ph. Eur.) (ISO 21528) Code 433745  Description: Enterobacteriaceae form pink-red colonies and surrounded by a reddish halo of precipitation.		<b>Plate Count Agar (PCA)</b> Code 433799 Description: Medium recommended by APHA for enumeration of mesophilic aerobic bacteria.
	<b>Sabouraud Glucose Agar+Chloramphenicol</b> (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.		<b>Tryptone Soy Agar (TSA)</b> (Ph. Eur.) Code 433819

## Chromogenic media – Industry application chart

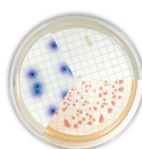
Code	Description	Supplement	Use	Reference Method	Microorganism	Meat & Fish	Water & Beverage	Dairy products	Bakery	Processed food	Beer industry	Waste-water	Cosmetic industry	Pharmaceutical industry
447153.0922	CCA Coliforms Chromogenic Agar (ISO 9308-1) (Prepared Plate (Ø 55 mm))		Selective detection	ISO 9308-1	<i>E. coli, coliforms</i>		●							
446910.0922	CCA Coliforms, Chromogenic Agar (Prepared Plate (Ø 55 mm))		Selective detection	SC0/778/2009 of 17 March 2009	<i>E. coli, coliforms</i>		●							
416109.1208 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>	●	●	●	●	●				



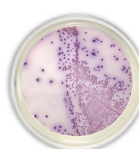
TBX Agar  
(ISO 16649-2,3:2001)



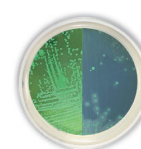
Chromogenic  
*E. coli* Agar



CCA Coliforms,  
Chromogenic Agar



Chromogenic  
Salmonella Agar



Listeria Chromogenic Agar  
(ISO 11290:2004)



A168,EN;201707

**PanReac**   
**AppliChem**  
ITW Reagents

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