



Cosmetics Industry

Culture media for microbiological
analysis of cosmetic products



A close-up photograph of a woman's face, focusing on her eyes and cheek. She is applying a white cream to her cheek with her fingers, which have light pink manicured nails. A pink orchid flower is visible in the lower right corner. The background is a soft, out-of-focus white.

Scharlau your partner in the cosmetics industry

Scharlab has more than 35 years of experience in the manufacture of culture media for microbiology. Since 1991, we also incorporated our range of prepared culture media due to the appearance of a new emerging market who has started demanding a ready-to-use presentation instead of dehydrated form.

The Scharlau culture media portfolio includes all media applicable to the quality control departments of different sectors:

- Pharmaceutical & Veterinary Industry
- **Cosmetics Industry**
- Food & Beverage Sector
- Water testing Laboratories
- Hospitals and Clinics

All our dehydrated and prepared media are manufactured in accordance with our existing Quality Standards and Quality Management practices according to ISO 9001:2008.

In addition, our culture media complies with validated methods, International Standards and microbiological guidelines including ISO, Harmonised Pharmacopoeia Methods, European Pharmacopoeia, USP, FDA, etc...

With respect to Cosmetics, we are able to offer a wide portfolio of culture media formulated and controlled according to Cosmetics requirements and directives:

- Broths and diluents for sample preparation
- Neutralizing broths and diluents
- Non-selective and selective culture media
- Culture media for confirmation tests

Cosmetic products consist of a wide family of products having multiple applications for human use. They are produced from different types of raw materials derived from either synthetic or natural sources. For this reason the Cosmetics Industry has been working under different guidelines and regulations including:

- Pharmacopoeia
- FDA
- SCCS (Scientific Committee on Customer Safety)
- Local Regulations (CTFA, ASEAN)
- Food Guidelines
- GMP

Three main objectives in Cosmetics Industry:

Hygiene

achieved by an extensive control of processes, facilities and personnel.

Safety

ensuring that the cosmetic products are free of pathogens and complying to a safety level of microorganisms.

Effectiveness

of products throughout its shelf life.

ISO 22716

Cosmetics Guidelines on Good Manufacturing Practices

With the aim to harmonize standards such as Good Manufacturing Practices (GMP) within the Cosmetics Industry, the European Committee established the New European Regulation (EC) 1223/2009 replacing the former directive 76/768/EC. The new regulation implies the implementation of the International Standard ISO 22716:2007 in this industry.

- Covers the quality aspects of the products and gives a general view, although it is non-specific.
- Gives guidance for the production, control, storage, and shipment of cosmetic products.
- Provides practical methods for managing the numerous factors that can affect product quality.
- Provides guidance in a number of areas: personnel, facilities, equipment, raw material, production, storage, end user products, delivery of products, quality control, quality systems.
- Define quality control issues: sampling, specifications, microbiological testing, outside specification, investigation, liberation.

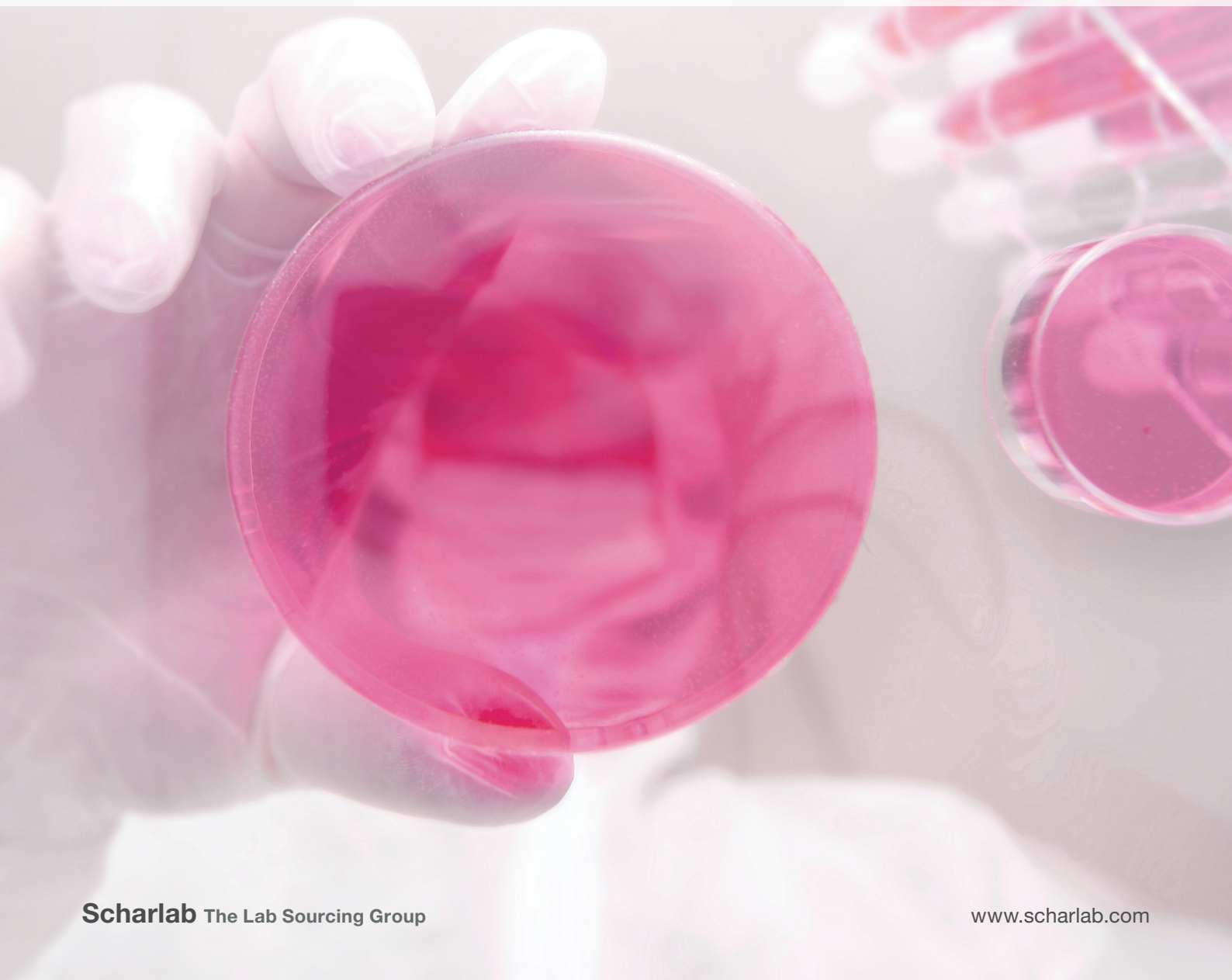
List of cosmetic products subjected to this regulation

- Creams, emulsions, lotions, gels and oils for the skin
- Deodorants and antiperspirants
- Makeup (liquid, pastes, powders, nail and lip makeup)
- Masks (with the exception of the products of surface abrasion of the skin by chemical means)
- Perfumes, toilet water, colognes
- Bath and shower products (salts, foams, oils, gels)
- Sunless tanning products
- Products for oral and dental care
- Products for removing makeup from face and eyes
- Depilatory products

Microbiological Tests:

In accordance with the ISO 22716 regarding recommended standardized protocols for the microbiological test in Cosmetics Industry, the following should be carried out:

- ISO 21148 - General instructions for microbiological examination
- Total Viable Count:
 - ISO 21149 – Enumeration and Detection of Aerobic Mesophilic Bacteria
 - ISO 16212 – Enumeration of Yeast and Mould
- Research and Identification of Microorganisms
 - ISO 18415 – Detection of Specified and non-Specified Microorganisms
 - ISO 18416 – Detection of *Candida albicans*
 - ISO 22718 – Detection of *Staphylococcus aureus*
 - ISO 21150 – Detection of *Escherichia coli*
 - ISO 22717 – Detection of *Pseudomonas aeruginosa*
- ISO 11930 - Evaluation of the antimicrobial protection of a cosmetic product



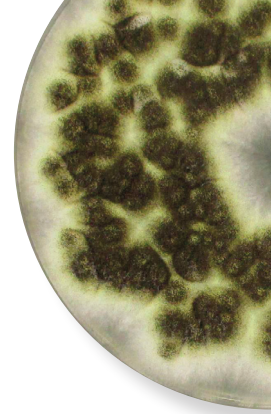
ISO 21148

General Instructions for Microbiological Examination

This rule includes general recommendations regarding the management of:

- Testing areas
- Equipment
- Sample preparation and handling
- Personnel
- Preparation of recommended culture media.
- Neutralization of the antimicrobial properties of the product (see table below)

Preservative	Chemical compounds able to neutralize preservative's antimicrobial activity	Examples of suitable neutralizers and rinsing liquids.
Phenolic compounds: parabens phenoxyethanol phenylethanol etc Anilides	Lecithin Polysorbate 80 Ethylene oxide condensate of fatty alcohol Non-ionic surfactants	Polysorbate 80,30g/l + lecithin, 3g/l
		Ethylene oxide condensate of fatty alcohol, 7g/l + lecithin 20g/l + polysorbate 80, 4g/l
		D/E neutralizing broth
		<i>Rinsing liquid distilled water, tryptone, 1g/l + NaCl 9g/l; polysorbate 80, 5g/l</i>
Quaternary ammonium compounds Cationic surfactants	Lecithin, saponin, polysorbate 80, sodium dodecyl sulphate Ethylene oxide condensate of fatty alcohol	Polysorbate 80,30g/l + sodium dodecyl sulphate, 4g/l + lecithin, 3g/l
		Polysorbate 80,30g/l + saponin, 30g/l + lecithin, 3g/l
		D/E neutralizing broth
		<i>Rinsing liquid distilled water, tryptone, 1g/l + NaCl 9g/l; polysorbate 80, 5g/l</i>
Aldehydes Formaldehyde-releasing agents	Glycine, histidine	Lecithin, 3g/l + polysorbate 80,30g/l + L-histidine, 1g/l
		Polysorbate 80, 30g/l + saponin, 30g/l + L-histidine, 1g/l + L-cysteine, 1g/l
		D/E neutralizing broth
		<i>Rinsing liquid: polysorbate 80,30g/l + L-histidine 0,5g/l</i>
Oxidizing compounds	Sodium thiosulphate	Sodium thiosulfate, 5g/l
		<i>Rinsing liquid: sodium thiosulfate, 3g/l</i>
Isothiazolinones, Imidazoles	Lecithin, saponin Amines, sulfates, mercaptans, sodium bisulfite, sodium thioglycollate	Polysorbate 80,30g/l + saponin, 30g/l + lecithin, 3g/l
		<i>Rinsing liquid: tryptone, 1g/l + NaCl, 9g/l; polysorbate 80, 5g/l</i>
Biguanides	Lecithin, saponin, polysorbate 80	Polysorbate 80,30g/l + saponin, 30g/l + lecithin, 3g/l
		<i>Rinsing liquid: tryptone, 1g/l + NaCl, 9g/l; polysorbate 80, 5g/l</i>
Metallic salts (Cu, Zn, Hg) Organo-mercuric compounds	Sodium bisulphate, L-cysteine Sulfhydryl compounds, thioglycolic acid	Sodium thioglycollate, 0,5g/l or 5g/l
		L-cysteine, 0,8g/l or 1,5g/l
		D/E neutralizing broth
		<i>Rinsing liquid: sodium thioglycollate, 0,5g/l</i>



ISO 21149

Enumeration and Detection of Aerobic Mesophilic Bacteria

Enumeration

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of diluent, neutralizing diluent or enrichment broth

Transfer 1ml by
pour plate method

or

Transfer 0,1ml
onto surface of a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ for 72 ± 6 h

- **Fluid A, art. no. 064-BA6002**
- **Casein Lecithin Polysorbate Broth, art. no. 02-539**
- Eugon LT100 Broth, art. no. 02-654
- Lethen Modified Broth, art. no. 02-237

- **TSA, art. no. 01-200**
- Eugon LT100 Agar, art. no. 01-654

Membrane Filtration

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of sterile diluent

Filtrate and wash the membrane
using defined volumes of water, diluent or neutralizing diluent

Transfer the membrane onto surface of a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ for 72 ± 6 h

- **Fluid A, art. no. 064-BA6002**
- **Casein Lecithin Polysorbate Broth, art. no. 02-539**
- Buffered Peptone Water, art. no. 02-494
- Eugon LT100 Broth, art. no. 02-654
- Lethen Modified Broth, art. no. 02-237

- **TSA, art. no. 01-200**
- Eugon LT100 Agar, art. no. 01-654

Enrichment and Detection

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of diluent, neutralizing diluent or enrichment broth

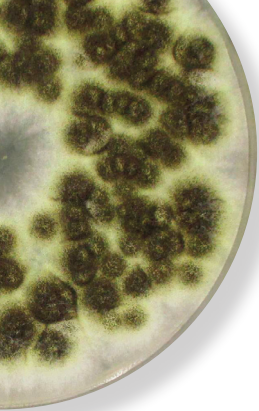
Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h

Transfer 0,1 – 0,5ml onto a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ from 48h to 72h

- **Eugon LT100 Broth, art. no. 02-654**
- TSB with lecithin and polysorbate
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802

- **Eugon LT100 Agar, art. no. 01-654**
- TSA, art. no. 01-200



Potato Dextrose Agar (01-483)
Aspergillus brasiliensis ATCC 16404

ISO 16212

Enumeration of Yeast and Mould

Enumeration

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml
of diluent, neutralizing diluent or enrichment broth

Transfer 1ml by
pour plate method

or

Transfer 0,1ml
onto surface of a suitable agar

Incubate plates at $25 \pm 2,5^{\circ}\text{C}$ for 3-5 days

- **Fluid A, art. no. 064-BA6002**
- **Casein Lecithin Polysorbate Broth, art. no. 02-539**
- Buffered Peptone Water, art. no. 02-494
- Eugon LT100 Broth, art. no. 02-654
- Lethen Modified Broth, art. no. 02-237

• **Sabouraud Chloramphenicol Agar, art. no. 01-166**

- Potato Dextrose Agar, art. no. 01-483
- Malt Extract Agar, art. no. 01-573
- Glucose Peptone Chloramphenicol Agar, art. no. 01-692

Membrane Filtration

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of sterile diluent

Filtrate and wash the membrane
using defined volumes of water, diluent or neutralizing diluent

Transfer the membrane onto surface of a suitable agar

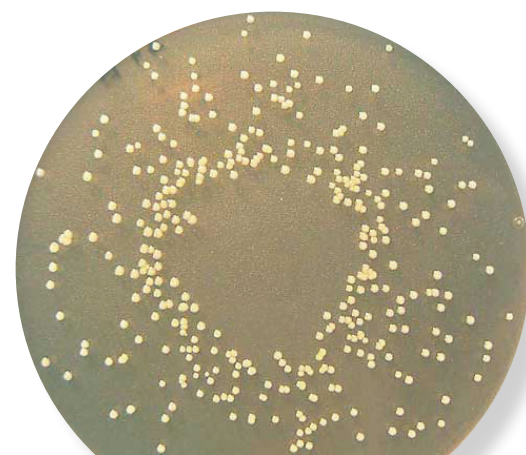
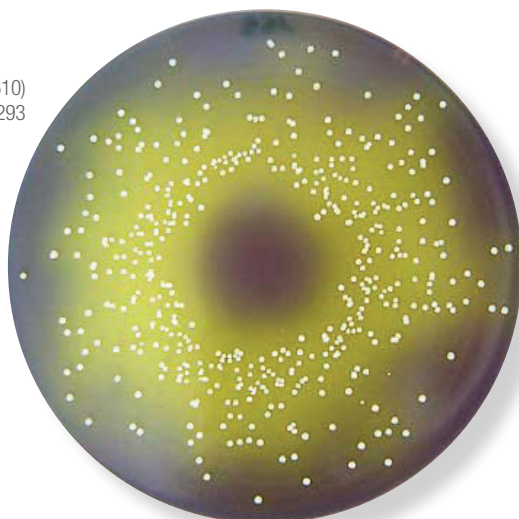
Incubate plates at $25 \pm 2,5^{\circ}\text{C}$ for 3-5 days

- **Fluid A, art. no. 064-BA6002**
- **Casein Lecithin Polysorbate Broth, art. no. 02-539**
- Buffered Peptone Water, art. no. 02-494
- Eugon LT100 Broth, art. no. 02-654
- Lethen Modified Broth, art. no. 02-237

• **Sabouraud Chloramphenicol Agar, art. no. 01-166**

- Potato Dextrose Agar, art. no. 01-483
- Malt Extract Agar, art. no. 01-573
- Glucose Peptone Chloramphenicol Agar, art. no. 01-692

D/E Neutralizing Agar (01-610)
Staphylococcus aureus ATCC 25293





ISO 18415

Detection of Specified and non-Specified Microorganisms

Enrichment and Detection:

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of enrichment broth

Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h

Transfer with sterile loop to a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ for 48-72 h

Identification of specified microorganisms (see table below)

- **Eugon LT100 Broth, art. no. 02-654**
- TSB with lecithin and polysorbate
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- Casein Lecithin Polysorbate Broth, art. no. 02-539

- **TSA, art. no. 01-200**

Membrane Filtration

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of sterile diluent

Filtrate and wash the membrane using defined volumes of water, diluent or neutralizing diluent

Transfer the membrane onto surface of a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ for 48-72 h

Identification of specified microorganisms (see table below)

- **Eugon LT100 Broth, art. no. 02-654**
- TSB with lecithin and polysorbate
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- Casein Lecithin Polysorbate Broth, art. no. 02-539

- **TSA, art. no. 01-200**

Identification of specified microorganism

	CONFIRMATION
<i>Pseudomonas aeruginosa</i>	• GRAM negative rods • Growth in Cetrimide Agar, art. no. 01-160. Positive production of fluorescence and piocianine • Oxidase positive using sterile Oxidase swabs, art. no. 06-120-025
<i>Escherichia coli</i>	• GRAM negative rods • Oxidase negative using sterile Oxidase swabs, art. no. 06-120-025 • Growth in Lactose Broth, art. no. 02-105. Fermentation of lactose positive • Positive Indol Production. Incubation in Tryptone Water, art. no. 03-156, and addition of some drops of Kovacs Reagent, art. no. RE0007
<i>Staphylococcus aureus</i>	• GRAM positive cocci in clusters • Catalase positive. Pour few drops of art. no. HI0135 on suspected colonies • Coagulase positive, art. no. 064-PLA-CO. Required a previous culture of suspected colonies in Brain Heart Infusion Broth, art. no. 02-599
<i>Candida albicans</i>	• GRAM test giving violet-elongated cells • Production of germ tubes pseudomycelium and chlamydsore. Lactophenol Blue Stain, art. no. AZ0175

ISO 18416

Detection of *Candida albicans*

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of enrichment broth

Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h

Transfer with sterile loop to a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ for 24-48 h

Identification of suspected microorganisms:

- GRAM test giving violet-elongated cells
- Germ tube production (presence of filaments with serum)
- Culture on Corn Meal Agar with 1 % Polysorbate 80 (presence of Chlamydospores in a coverglass placed over the inoculum streak)

- **Eugon LT100 Broth, art. no. 02-654**

- TSB with lecithin and polysorbate
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- TSB, art. no. 02-200

- **Sabouraud Chloramphenicol**

- Agar, art. no. 01-166**
- Potato Dextrose Agar, art. no. 01-483

ISO 22718

Detection of *Staphylococcus aureus*

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of enrichment broth

Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h (maximum 72 h)

Transfer with sterile loop to a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ at least 24 h (maximum 48 h)

Identification of suspected microorganisms

- GRAM positive - cocci in clusters
- Catalase Test positive
- Coagulase Test positive with Rabbit Plasma, art. no. 064-PLA-CO, for 3-4 hours

- **Eugon LT100 Broth, art. no. 02-654**

- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- TSB, art. no. 02-200

- **Baird Parker Agar, art. no. 01-030**

- Mannitol Salt Agar (Chapman Agar), art. no. 01-116
- Vogel Johnson Agar, art. no. 01-206



ISO 21150 Detection of *Escherichia coli*

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of enrichment broth

Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h (maximum 72 h)

Transfer with sterile loop to a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ at least 24 h (maximum 48 h)

Identification of suspected microorganisms:

- GRAM negative rods
- Incubate suspected colonies on Eosin Methylene Blue Agar, art. no. 01-068 at $32,5 \pm 2,5^{\circ}\text{C}$ at least 24 h
- *E. coli* appears dark blue with metallic sheen colonies

- **Eugon LT100 Broth, art. no. 02-654**
- Lactose Broth, art. no. 02-105
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- TSB, art. no. 02-200
- TSB with Lecithin and Polysorbate

- **MacConkey Agar, art. no. 01-118**

ISO 22717 Detection of *Pseudomonas aeruginosa*

Sample weight: 1g or 1ml

Initial suspension 1:10 dilution in 9ml of enrichment broth

Incubation $32,5 \pm 2,5^{\circ}\text{C}$ at least 20 h (maximum 72 h)

Transfer with sterile loop to a suitable agar

Incubate plates at $32,5 \pm 2,5^{\circ}\text{C}$ at least 24 h (maximum 48 h)

Identification of suspected microorganisms:

- GRAM negative rods
- Oxidase test positive, art. no. 06-120-025
- Incubate suspected colonies on King A Agar, art. no. 01-001 at $32,5 \pm 2,5^{\circ}\text{C}$, 24-72 h
- *P. aeruginosa* appears in colonies surrounded by blue-green zone (pyocyanin) or brown (pyorubin)

- **Eugon LT100 Broth, art. no. 02-654**
- Lethen Modified Broth, art. no. 02-237
- D/E Neutralizing Broth, art. no. 02-802
- TSB, art. no. 02-200

- **Cetrimide Agar, art. no. 01-160**





ISO 11930

Evaluation of the antimicrobial protection of a cosmetic product

The International Standards establish the protocols to evaluate the antimicrobial protection of a cosmetic product. These Standards refer to the capacity of a cosmetic product to support any microbiological contamination which could be of human risk.

The ISO refers to the methods of recovery, culture and validation of strains.

Relevant media for each purpose is as indicated:

Diluents:

- Maximum Recovery Diluent, art. no. 02-510

Neutralizing diluents:

- Eugon LT100 Broth, art. no. 02-654

Culture Media:

- For *Staphylococcus aureus*, *Escherichia coli* and *Pseudomonas aeruginosa*
Tryptic Soy Agar (TSA), art. no. 01-200
- For *Candida albicans*
Sabouraud Dextrose Agar (SDA), art. no. 01-165
- For *Aspergillus brasiliensis*
Potato Dextrose Agar (PDA), art. no. 01-483



Users Guide

Culture Media		Aerobic Mesophilic Bacteria ISO 21149	Yeast and Mould ISO 16212	Specified and Non-specified Microorganisms ISO 18415	Candida albicans ISO 18416	Staphylococcus aureus ISO 22718	Escherichia coli ISO 21150	Pseudomonas aeruginosa ISO 22717	Burkholderia cepacia
DILUENTS	Buffered Peptone Solution pH 7,2	◆	◆						
	Buffered Peptone Water		◆						
	Fluid A	◆	◆						
NEUTRALIZING DILUENTS & ENRICHMENT BROTHS	Casein Lecithin Polysorbate20 Broth	◆	◆	◆					
	D/E Neutralizing Broth	◆		◆	◆	◆	◆	◆	
	Eugon LT100 Broth	◆	◆	◆	◆	◆	◆	◆	
	Glucose Peptone Chloramphenicol Broth				◆				
	Lactose Broth						◆		
	Lethen Modified Broth	◆		◆	◆	◆	◆	◆	
	Soybean Casein Broth (TSB)				◆	◆	◆		
	Soybean Casein Lecithin Polysorbate 80 Broth	◆		◆	◆		◆	◆	
NON-SELECTIVE AGAR	Eugon LT100 Agar	◆							
	Glucose Peptone Chloramphenicol Agar		◆						
	Malt Extract		◆						
	Potato Dextrose Agar		◆		◆				
	Sabouraud Chloramphenicol Agar		◆		◆				
	TSA Agar	◆		◆					
SELECTIVE AGAR	Baird Parker Agar					◆			
	Burkholderia Cepacia Selective Agar (BSCA)								◆
	Cetrimide Agar							◆	
	HC Agar				◆				
	MacConkey Agar						◆		
	Manitol Salt Agar					◆			
	Nickerson Agar				◆				
	Vogel Johnson Agar					◆			
IDENTIFICATION & BIOCHEMICAL TESTS	Catalase			◆		◆			
	Coagulase Rabbit Plasma			◆		◆			
	Eosin Methylene Blue Agar (EMB)						◆		
	GRAM staining			◆	◆	◆	◆	◆	◆
	Indol Test						◆		
	King A Agar							◆	
	Oxidase			◆			◆	◆	◆

Ordering Information

DILUENTS, NEUTRALIZING DILUENTS AND ENRICHMENT BROTHS	Art. No.	Presentation
Buffered Peptone Solution pH 7 acc. to Harmonised Pharmacopoeia		
	02-494-500	500g
	02-494BA05	5 x 500ml
	064-BA3021	10 x 100ml
	064-BA6064	10 x 90ml
	0TA2151-10	20 x 10ml
	064-TA2151	20 x 9ml
Casein Lecithin Polysorbate 20 Broth		
Casein Lecithin Polysorbate 20 Broth Base	02-539-500	500g
	02-539BA05	5 x 500ml
Tween 20 (Polysorbate 20)	TW00201000	1l
D/E Neutralizing Broth		
	02-802-500	500g
Tween 20 (Polysorbate 20)	TW00200100	100ml
Eugon LT 100 Broth		
	02-654-500	500g
	02-654BA05	5 x 500ml
	064-TA0264	20 x 9ml
Fluid A (1,0g/L Meat Peptone)		
Meat Peptone	07-152-500	500g
Fluid A	064-BA6002	10 x 100ml
Lactose Broth		
	02-105-500	500g
	02-105BA05	5 x 500ml
	064-BA3029	10 x 100ml
	064-TA2142	20 x 10ml
Lactose Broth double concentration	064-TA2141	20 x 10ml
Lethen Modified Broth		
Lethen Modified Broth Base	02-237-500	500g
	02-237BA05	5 x 500ml
Tween 80 (Polysorbate 80)	TW00801000	1l
Lethen Modified Broth	064-BA8002	10 x 300ml
	0BA2145-90	10 x 90ml
	064-TA6070	20 X 9ml
Maximum Recovery Diluent (MRD)		
	02-510-500	500g
	02-510BA05	5 x 500ml
	064-BA0733	10 x 90ml
	064-TA6074	20 x 9ml
Soybean Casein Lecithin Polysorbate 80 Broth (SCDLP 80 Broth)		
	02-200-500	500g
	02-200BA05	5 x 500ml
	064-BA1012	10 x 100ml
	0BA1012-90	10 x 90ml
	064-TA113	20 x 10ml
	064-TA2147	20 x 9ml
Lecithin	07-342-500	500g
Tween 80 (Polysorbate 80)	TW00801000	1l

Tryptic Soy Broth (TSB)		
	02-200-500	500g
	02-200BA05	5 x 500ml
	064-BA1012	10 x 100ml
	0BA1012-90	10 x 90ml
	064-TA0113	20 x 10ml
	064-TA2147	20 x 9ml
Tryptone Sodium Chloride Solution		
Tryptone - Peptone from Casein	07-489-500	500g
Sodium Chloride	SO02251000	1kg

COUNTING & SELECTIVE ISOLATION MEDIA	Art. No.	Presentation
Baird Parker Agar		
Baird Parker Agar Base	01-030-500	500g
	01-030BA05	5 x 500ml
Egg Yolk Tellurite Sterile Emulsion	064-BA1018	100ml
Baird Parker Agar	064-PA0008	20 x 90mm
	064-BA1033	10 x 90ml
Burkholderia Cepacea Selective Agar (BCSA Agar)		
Burkholderia Cepacea Selective Agar Base (BCSA Agar)	01-736-500	500g
	01-736BA05	5 x 500ml
Burkholderia Cepacea Selective Supplement	06-737LYO1	10 vials
Burkholderia Cepacea Selective Agar (BCSA Agar)	064-PA6064	20 x 90mm
Cetrimide Agar		
	01-160-500	500g
	01-160BA05	5 x 500ml
	064-PA0050	20 x 90mm
	064-BA1032	10 x 100ml
	064-BA3037	10 x 200ml
Eugon LT 100 Agar		
	01-654-500	500g
	01-654BA05	5 x 500ml
	064-PA0071	20 x 90mm
Glucose Peptone Chloramphenicol Agar (GP Agar + Antibiotic)		
	01-692-500	500g
HC Agar		
	01-298-500	500g
MacConkey Agar		
	01-118-500	500g
	01-118BA05	5 x 500ml
	064-PA0019	20 x 90mm
	064-BA1003	10 x 100ml
Malt Extract Agar		
	01-573-500	500g
	01-573BA05	5 x 500ml
	064-PA0027	20 x 90mm
	064-BA7036	10 x 100ml
Mannitol Salt Agar		
	01-116-500	500g
	01-116BA05	5 x 500ml
	064-PA0011	20 x 90mm

Nickerson Agar (Biggy Agar)		
	01-137-500	500g
	01-137BA05	5 x 500ml
	064-PA0018	20 x 90mm
Potato Dextrose Agar (PDA) with antibiotics		
Potato Dextrose Agar (PDA)	01-483-500	500g
	01-483BA05	5 x 500ml
Chloramphenicol Selective Supplement	06-118YO1	10 vials
Potato Dextrose Agar (PDA)	064-PA0015	20 x 90mm
Sabouraud Chloramphenicol Agar (SCA)		
	01-166-500	500g
	01-166BA05	5 x 500ml
	064-PA0026	20 x 90mm
	064PA0026I	20 x 90mm (Irrad, Double W.)
	064-BA1007	10 x 100ml
	064-BA3039	10 x 200ml
Sabouraud Dextrose Agar (SDA)	01-165-500	500g
	01-165BA05	5 x 500ml
Chloramphenicol Selective Supplement	06-118LYO1	10 vials
Sabouraud Dextrose Agar (SDA Agar)		
	01-165-500	500g
	01-165BA05	5 x 500ml
	064-PA0025	20 x 90mm
	064PA0025I	20 x 90mm (Irrad, Double W.)
	064-BA1006	10 x 100ml
Tryptic Soy Agar (TSA)		
	01-200-500	500g
	01-200BA05	5 x 500ml
	064-PA0031	20 x 90mm
	064PA0031I	20 x 90mm (Irrad, Double W.)
	064-BA1008	10 x 100ml
	064-BA6043	10 x 200ml
	064-TA0221	20 x 15ml
Vogel Johnson Agar (VJ Agar)		
	01-206-500	500g
	01-206BA05	5 x 500ml

IDENTIFICATION	Art. No.	Presentation
Brain Heart Infusion Broth		
	02-599-500	500g
	02-599BA05	5 x 500ml
	064-TA0143	20 x 10ml
Catalase Test Reagent		
	064-CL0234	30ml
Coagulase Rabbit Plasma		
	064-PLA-CO	1u.
Eosin Methylene Blue Agar (EMB)		
	01-068-500	500g
	01-068BA05	5 x 500ml
	064-PA0013	20 x 90mm
GRAM Staining		
Lugol GRAM	LU00101000	1l
Crystal Violet GRAM	VI00271000	1l
Decolorizer GRAM	DE00101000	1l
Safranine GRAM	SA00421000	1l
Indol Test		
Tryptophan Broth	02-418-500	500g
	064-TA0132	20 x 2ml
Kovacs Reagent	RE0007G100	100ml
King A Agar		
	01-001-500	500g
	01-001BA05	5 x 500ml
Oxidase Test		
	06-120-025	25 swabs



MISTRACON STRAINS	ATCC Licensed Derivative	Art. No.	Presentation	MiStraCon® Microbiologic Strains for Control
<i>Pseudomonas aeruginosa</i> ATCC 9027 / WDCM 00026				
Swabs2		S00002-MSC	Two swabs	
QuantiE-Pellet		EP2002-MSC	One vial with 5 pellets (10 ⁷ CFU/pellet)	
QuantiPellet		P10002-MSC	5 pellets individualized and 5 vials of hydrating liquid (10-100 CFU/0.1 ml)	
<i>Staphylococcus aureus</i> ATCC 6538 / WDCM 00032				
Swabs2		S00003-MSC	Two swabs	
QuantiE-Pellet		EP2003-MSC	One vial with 5 pellets (10 ⁷ CFU/pellet)	
QuantiPellet		P10003-MSC	5 pellets individualized and 5 vials of hydrating liquid (10-100 CFU/0.1 ml)	
<i>Escherichia coli</i> ATCC 8739 / WDCM 00012				
Swabs2		S00004-MSC	Two swabs	
QuantiE-Pellet		EP2004-MSC	One vial with 5 pellets (10 ⁷ CFU/pellet)	
QuantiPellet		P10004-MSC	5 pellets individualized and 5 vials of hydrating liquid (10-100 CFU/0.1 ml)	
<i>Candida albicans</i> ATCC 10231 / WDCM 00054				
Swabs2		S00005-MSC	Two swabs	
QuantiE-Pellet		EP2005-MSC	One vial with 5 pellets (10 ⁷ CFU/pellet)	
QuantiPellet		P10005-MSC	5 pellets individualized and 5 vials of hydrating liquid (10-100 CFU/0.1 ml)	
<i>Aspergillus brasiliensis</i> ATCC 16404 / WDCM 00053				
Swabs2		S00001-MSC	Two swabs	
QuantiE-Pellet		EP2001-MSC	One vial with 5 pellets (10 ⁷ CFU/pellet)	
QuantiPellet		P10001-MSC	5 pellets individualized and 5 vials of hydrating liquid (10-100 CFU/0.1 ml)	
<i>Burkholderia cepacea</i> ATCC 25416				
Swabs2		S00012-MSC	Two swabs	

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