

## Technical Data Sheet

### Rambach® Agar

Ordering number: 1.46719.0020 / 1.46719.0100

For identification and isolation of Salmonella from food and animal feed, water and other materials.

#### General

This medium can be used as second plate after Xylose Lysine Deoxycholate (XLD) agar in detecting Salmonella as mentioned in EN ISO/FDIS 6579-1.

#### Mode of Action

The nutritive substrates in the RAMBACH® Agar enable Enterobacteriaceae to multiply readily. Sodium deoxycholate inhibits the accompanying Gram-positive flora. RAMBACH® Agar enables species of Salmonella to be differentiated unambiguously from other bacteria by means of a new procedure. This is made possible by adding propylene glycol to the culture medium. Salmonella form acid with propylene glycol, so that, in combination with a pH indicator, the colonies have a characteristic red colour. In order to differentiate coliforms from Salmonellae, the medium contains a chromogene indicating the presence of β-galactosidase splitting, a characteristic for coliforms. Coliform microorganisms grow as blue-green or blue-violet colonies. Other Enterobacteriaceae and Gram-negative bacteria, such as Proteus, Pseudomonas, Shigella, S. typhi and S. paratyphi A grow as colourless-yellow colonies.

#### Typical Composition (g/l)

Peptone	8
Propylene Glycol	10.5
NaCl	5
Na-Deoxycholate	1.0
Chromogens	1.5
Agar	17

The appearance of the medium is pink and turbid. The pH value is in the range of 7.1-7.5. The medium can be adjusted and/or supplemented according to the performance criteria required.

## Application and Interpretation

Each plate is provided with a label including a data matrix code for paperless plate identification. The code consists of a two-dimensional 20-digit serial number, which harbors the following information:

digits 1-3: here code 773 (corresponds to article 146719); digits 4-9: lot number; digits 10-14: batch specific individual number; digits 15-20: expiration date (YY/MM/DD).

Please check each agar plate before using it on sterility and pay attention to aseptic handling in order to avoid false positive results.

Following the procedure given by EN ISO 6579, inoculate the surface of the medium from the selective enriched cultures so that well-isolated colonies will be obtained.

Incubate the inoculated plates inverted under aerobic conditions,  $22 \pm 2$  hours at  $36 \pm 1$  °C.

Typical color of colonies grown on Rambach® Agar

<b>Organism</b>	<b>Color</b>
Salmonella	Red
Coliform	Blue-green
Others (Proetetus, Pseudomonas etc)	Yellowish / Colorless

## Storage and Shelf Life

The product can be used for sampling until the expiry date if stored upright, protected from light and properly sealed at +4 °C to +12 °C.

Condensation can be prevented by avoiding quick temperature shifts and mechanical stress.

The testing procedures as described on the CoA can be started up to the expiry date printed on the label.

## Disposal

Please mind the respective regulations for the disposal of used culture medium (e.g. autoclave for 20 min at 121 °C, disinfect, incinerate etc.).

## Quality Control

Function	Incubation	Control Strains	Expected Results
Productivity	22 ± 2 hours at 36 ± 1 °C	Shigella flexneri ATCC® 12022 WDCM 00126	good growth; colorless, medium-sized colonies
		Escherichia coli ATCC® 25922 WDCM 00013	growth; blue, medium-sized colonies
		Pseudomonas aeruginosa ATCC® 27853 WDCM 00025	moderate growth; medium- sized colonies with pale-pink center and bright border
		Salmonella Typhimurium ATCC® 14028 WDCM 00031	good growth; bright pink colonies with bright border
Selectivity		Proteus vulgaris ATCC® 8427	growth inhibited; possibly bluish, small colonies; no swarming

Please refer to the actual batch related Certificate of Analysis.

## Literature

**ISO International Standardisation Organisation.** Microbiology of food and animal feeding stuffs - Horizontal method for the detection of *Salmonella* spp. EN ISO 6579:2002.

**ISO International Standardisation Organisation.** Microbiology of the food chain - Horizontal method for the detection, enumeration and serotyping of *Salmonella* - Part 1: Horizontal method for the detection of *Salmonella* spp. EN ISO/FDIS 6579-1:2015.

**ISO International Standardisation Organisation.** Water quality - Detection of *Salmonella* spp. EN ISO 19250:2010.

**ISO International Standardisation Organisation.** Microbiology of food, animal feed and water - Preparation, production, storage and performance testing of culture media. EN ISO 11133:2014.

**Rambach, A. (1990):** New plate medium for facilitated differentiation of *Salmonella* spp. from *Proteus* spp. and other enteric bacteria. Appl. Environm. Microbiol. 56: 301-303.

## Ordering Information

Product	Cat. No.	Pack size	Other packaging size
Rambach® Agar in Ready-to-Use plates	1.46719.0020	20 x 90 mm plates	100x 90mm plates
Rambach® Agar	1.07500.0001	4x250ml	4x 1000ml 1x 1L
<b>GranuCult™</b> Buffered Peptone Water acc. ISO 6579, ISO 21528, ISO 22964, FDA-BAM and EP	1.07228.0500	500g	5Kg, 25Kg
<b>Readybag®</b> Buffered Peptone Water acc. ISO 6579, ISO 21528, ISO 22964, FDA-BAM and EP, 5,7 g, irradiated	1.02448.0060	60 bags	60 bags x 29g 35 bags x 86g
<b>ReadyTube™ 9</b> BPW ISO 6579,6887,21528	1.46142.0020	20 x 9ml	6 x 225ml, 6 x 1000ml,
<b>Granucult™</b> MKTTn (MULLER-KAUFFMANN Tetrathionate Novobiocin) broth (base) acc. ISO 6579	1.05878.0500	500g	
Potassium iodide	1.05043.0250	250 g	
Iodine resublimed	1.04761.0100	100 g	
<b>GranuCult™</b> RVS (RAPPAPORT-VASSILIADIS-Soya) broth (base) acc. ISO 6579	1.07700.0500	500g	
Novobiocin sodium salt	N6160-1-G	1g	5g, 25g
<b>ReadyTube™ 10</b> RVS Broth ISO 6579	1.46694.0020	20x10ml	
MSRV (Modified Semi-solid RAPPAPORT-VASSILIADIS) medium (base) acc. ISO 6579	1.09878.0500	500g	
MSRV Selective Supplement	1.09874.0010	10x1 Vial	
<b>ReadyTube™ 12</b> MSRV Medium ISO 6579	1.46694.0100	100x12ml	
<b>Granucult™ XLD</b> (Xylose Lysine Deoxycholate) agar acc. ISO 6579	1.05287.0500	500g	
<b>ReadyPlate™</b> XLD Agar ISO 6579	1.46751.0020	20 x 90mm	
Singlepath® Salmonella	1.04140.0001	25 test	
Bismuth Sulfite Agar acc WILSON-BLAIR	1.05418.0500	500g	

Triple Sugar Iron Agar	1.03915.0500	500g	
Urea Agar (base) acc CHRISTIANSEN	1.08492.0500	500g	
Urea GR for analysis ACS, Reagent Ph Eur	1.08487.0500	500g	
MR-VP (Methyl Red- VOGES-PROSKAUER) Broth	1.05712.0500	500g	
KOVACS' indole reagent	1.09293.0100	100ml	

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