

	Technical Data																
Use in	- Pharmaceutical industry in clean rooms and isolators - For industrial, laboratory & research applications only																
Use for	- Detection of aerobic and anaerobic micro-organisms - Contact sampling, personnel monitoring, as well as active air monitoring - Isolation and growth of fastidious bacteria, yeasts and moulds - Especially designed for use in environments with exposure to penicillins and lower concentrations of cephalosporins - For environments exposed to high concentrations of cephalosporins and penicillins please refer to art. 114.0100 The medium should be applied with a uniform and steady pressure to the surface for few seconds. After sampling the surface must be cleaned to remove residues of the medium.																
Typical composition per liter	Basic medium according to Ph. Eur. 2.6.12, 2.6.13 and USP <61>, <62> <table><tr><td>Casein peptone</td><td>15 g</td><td>Lecithin (L)</td><td>0.7 g</td></tr><tr><td>Soy peptone</td><td>5 g</td><td>Polysorbate 80 (T)</td><td>5 g</td></tr><tr><td>NaCl</td><td>5 g</td><td>β-Lac I / Penase*</td><td></td></tr><tr><td>Agar</td><td>15 g</td><td>β-Lactamase II</td><td></td></tr></table> * Penicillinase = Penase = β-Lactamase I This medium can be adjusted / or supplemented according to the performance criteria required.	Casein peptone	15 g	Lecithin (L)	0.7 g	Soy peptone	5 g	Polysorbate 80 (T)	5 g	NaCl	5 g	β-Lac I / Penase*		Agar	15 g	β-Lactamase II	
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Irradiation	Irradiated at 9 – 20 kGy																
Filling volume	16 – 19 mL																
Packaging	- Triple bagged, staples of 10 plates - Transparent - High barrier foil for H₂O₂ as well as for water-vapor 10 staples of 10 plates per packaging unit - Temperature isolated handle-bag in the cardboard-boxes																
Plates per box	100 (10 staples with 10 plates each)																
Shelf life	12 months from production date																
Storage conditions	- Recommended storage temperature: 15 – 25 °C - Should be stored at temperatures as stable as possible - Avoid prolonged exposure to direct sunlight - Before use: it is recommended to keep the plates upright (agar on the lower part, lid on the upper part) to avoid formation of extra condensation - After use: it is recommended to keep the plates upside down (agar on the upper part, lid on the lower part) to reduce the risk of accumulation of condensation during incubation which can affect colony formation																

	Technical Data
Label	On the side, at the bottom
Label information	- Product name: TSA+LT+LacI/II - Expiry date: YYYYMMDD → MMM in letters (e.g.: 2026Nov04) - Lot-number - Individual number - Barcode
Barcode	2-dimensional (data matrix), 20 digits: - Digits 1-3: Art.-No. - Digits 4-9: Lot-Number - Digits 10-14: Individual-Number - Digits 15-20: Date (YYMMDD)
Delivery	- Temperature controlled delivery on request - For shipments of larger amounts plastic pallets in Euro-size are used
Petri dish	- Locking-lid plate, made from polystyrene - Inner diameter: ~ 56.5 mm, thus providing an area of ~25 cm² - Outer diameter: ~ 66 mm - Bottom part with 1 cm² square grid for facilitated evaluation - Incubations in vent and closed position possible - Specific design to improve binding of agar to plate - Easy handling due to increased handling area - The bottom of the Petri dish contains "condensation collection channels" which capture and retain potential condensation originating from the culture medium, thereby increasing sampling safety
Lid positions	- All plates are delivered in the non-locked position - The plate contains 2 locked positions. If turning the lid clockwise the locked positions are in the following order: - Vent position - Closed position - Please check the recommendations for use on page 5
Place of production	PharmaMedia Dr. Müller GmbH Gustav-Throm-Str. 1, 69181 Leimen - Germany

Quality control, Certificates																																																																																																																								
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Penase Synonyms are: Penicillinase or β-lactamase I	Penase is a commercially available enzyme inactivating Penicillins like benzylpenicillin (penicillin G), ampicillin, amoxycillin, carbenicillin, methicillin, cloxacillin and flucloxacillin. Synonyms for Penase are Penicillinase and β-lactamase I. Although Penase is sometimes called β -lactamase I it has no activity against β-lactam antibiotics of the class of cephalosporins and/or penems. Penase activity: Enzyme activities are typically specified in international Units (= IU) or international kilo Units (= kIU). International Unit (IU): 1 IU hydrolyses 1 μmole of benzyl penicillin per min. at 25 °C, at pH 7.0 (1 μmole benzylpenicillin corresponds to about 0,3564 mg) Alternative specifications used for Penase used as well: Levy Unit (= LU): 1 LU ~ 0,00167 IU → 1 IU ~ 600 LU Pollock Unit (PU): Pollock Unit: 1 PU ~ 0,0133 IU → 1 IU ~ 75 PU Penase is added aseptically to the PMM medium. The amount of enzyme required by customers must be determined by every customer himself, as the production environments differ from customer to customer as well as the antibiotics produced.
β-lactamase II Synonyms are: Cephase Lactamator Carbamator LacBuster	β-lactamase II is a commercially available enzyme inactivating penicillin, cephalosporins and penems. It was originally extracted from <i>Bacillus cereus</i>. β -Lactamases II are available meanwhile from different suppliers under different names, e.g., cephase, lactamator, carbamator etc. This enzyme differs between suppliers in respect to their origin, and their activity against different antibiotics The enzyme activities are typically specified in international Units (= IU) or international kilo Units (= kIU). International Unit (IU): 1 IU hydrolyses 1 μmole of cephalosporin per min. at 25 °C, at pH 7.0 β-Lactamase II is added aseptically to the PMM medium The amount of enzyme required by customers must be determined by every customer himself, as the production environments differ from customer to customer as well as the antibiotics produced.

	Recommendations for use
Aerobic incubation	- The closed position provides ideal incubation conditions for aerobic microorganisms - Limits the dehydration of the agar during incubation - For long incubation of aerobic microorganisms, the closed position is recommended To lock the lid in the closed position, turn the lid clockwise into the final stop position
Anaerobic incubation	- The vent position is ideal for anaerobic incubations, as it allows an easy and effective removal of oxygen under anaerobic incubation conditions - Incubate in anaerobic incubator, anaerobic jar or suitable equipment 1. First option: - Turn the lid clockwise into the final stop position - Turn the lid one click counterclockwise to the vent position 2. Second option: Turn the lid clockwise directly into the first locked position

	Safety Data
Toxic ingredients	None
Basic composition	See typical composition
Solvent content	None
Safety data sheet required	Not mandatorily required