

	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 - Active as well as passive air monitoring, personnel monitoring - Isolate on and growth of fastidious bacteria, yeasts and moulds - Neutralization of residues of disinfectants - 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. 214.0100																
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	28 – 32 mL																
Packaging	- Triple bagged, staples of 10 plates - Transparent - High barrier foil for H₂O₂ as well as for water-vapor 6 staples of 10 plates per packaging unit - Temperature isolated handle-bag in the cardboard-boxes																
Plates per box	60 plates (6 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																
Label	On the side of the bottom part of the dish																

	Technical Data
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 can be used
Petri dish	• Locking lid 90 mm plate, made from polystyrene • Long incubations possible – due to high filling volume • Long expositions possible – due to specific design of plate • Incubations in vent and closed position possible
Lid positions	• All plates are delivered in the non-locked position • The plate contains two locked positions. If turning the lid clockwise the locked positions are in the following order: 1. Vent position 2. 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																																																																																																																			
Certificates	Every batch of product can be obtained with a certificate of analysis (CoA):																																																																																																																		
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Certificate of origin	All media lots produced by PMM can be obtained with a Certificate of Origin (CoO). All animal derived raw materials are specified as follows: • Raw material • Tissue • Animal source • Country of origin • Infectivity category (acc. to TSE guideline: EMA/410/01 current version)																																																																																																																		
BSE policy	In compliance with the current note for guidance on minimizing the risk of transmitting animal spongiform encephalopathy via human or veterinary medicinal products, we check the CoO of raw material in respect to the specified animal source, the country of origin and the infectivity category. We neither store or process ruminant raw materials obtained from high infectivity tissues (IA) nor ruminant raw materials whose animal source originates from countries or regions with an undetermined risk (cat C/GBR IV).																																																																																																																		

Quality control, Certificates	
Temperature stress	Art. 216.0060 has been exposed to temperature stress conditions (3 days at 2-8 °C as well as 3 days at 30-35 °C) and has passed shelf-life testing at least 30 days after the assigned expiry date. Shelf-life testing comprises all regular tests which are part of the normal release test of this article except for sterility control (see CoA).
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 0,3564mg) 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.

	Quality control, Certificates
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 (= IkU). 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 - First option: - Turn the lid clockwise into the final stop position - Turn the lid one click counterclockwise to the vent position - 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