	Technical Data Sheet		
Use in	 Pharmaceutical industry in clean rooms and isolators For industrial, laboratory & research applications only Basic medium according to EP 2.6.12, 2.6.13 and USP <61>, <62> 		
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	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 * Penicillinase = Penase = β -Lactamase I This medium can be adjusted / or supplemented according to the performance criteria required.		
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 Store protected from light exposure 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 		

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Label	On the side, at the bottom		
Label information	 Product name: TSA+LT+Lacl/II Expiry date: YYYYMMMDD → MMM in letters (e.g.: 2023Nov04) Lot-number Individual number Barcode 		
Barcode	 2-dimensional (data matrix), 20 digits: Digits 1-3: ArtNo. 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 		
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 		
Aerobic incubation	 The closed position provides ideal incubation conditions for aerobic microorganisms and 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 counter-clock-wise to the vent position Second option: Turn the lid clockwise directly into the first locked position 		



	Technical Data Sheet
Place of	PharmaMedia Dr. Müller GmbH
production	Gustav-Throm-Str. 1, 69181 Leimen - Germany

		Quality contro	ol, Certifica	ites		
	Each lot of product	can be obtained	with a certif	icate of ana	llysis (CoA):	
	Physico-chemica	I test paramete	rs:			
	Appearance	Slightly turbid,				
	pH value	7.1 – 7.5				
	Filling volume	16 – 19 mL				
	Irradiation	9 - 20 kGy				
	Growth Promotio					
	S. aureus	ATCC 6538	30-35 °C	1 day	50-200%	
	E. coli	ATCC 8739	30-35 °C	1 day	50-200%	
Certificates	P. paraeruginosa	ATCC 9027	30-35 °C	1 day	50-200%	
	B. subtilis	ATCC 6633	30-35 °C	1 day	50-200%	
	C. albicans	ATCC 10231	20-25 °C	3-5 days	50-200%	
	A. brasiliensis	ATCC 16404	20-25 °C	3-5 days	50-200%	
	Test for β-lactama				Ų	
	S. aureus	ATCC 6538	30-35 °C	1 day	No	
					inhibition	
		No inhibition by penicillin (10 IU)				
	No inhibition by ce	fazolin (30 µg)				
	Sterility control				No growth	
Certificate of origin	All media lots pro Origin (CoO). All Raw material Tissue Animal source Country of origin Infectivity categor	animal derived ા ry (acc. to TSE દ્	raw material guideline: EN	s are specit	fied as follows: current version	ר)
BSE policy	 In compliance with transmitting animal medicinal product specified animal. We neither store infectivity tissues originates from collins. 	nal spongiform e ets, we check the source, the cour or process rum (IA) nor rumina	encephalopa e CoO of rantry of origin ninant raw rantraw rantraw	thy via hun w material and the inf naterials ob erials whos	nan or vetering in respect to fectivity catego otained from h se animal sou	the ory.



	Quality control, Certificates
Temperature stress	 Art. 116.0100 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 or 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 (= IkU). 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 have to be determined by every customer himself, as the production environments differ from customer to customer as well as the antibiotics produced.



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	β -lactamase II is a commercially available enzyme inactivating penicillins, 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.	
β-lactamase II	This enzyme differs between suppliers in respect to their origin, and their activity	
Synonyms are:	against different antibiotics	
Cephase	The enzyme activities are typically specified in international Units (= IU) o	
Lactamator	international kilo Units (= IkU).	
Carbamator	International Unit (IU):	
LacBuster	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 have to be determined by every customer himself, as the production environments differ from customer to customer as well as the antibiotics produced.	

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