	Technical Data Sheet			
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 Isolate on 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 a few seconds. After sampling the surface must be cleaned to remove residues of the medium. 			
Typical composition per liter	Casein peptone15 gLecithin (L)0,7 gSoy peptone5 gPolysorbate 80 (T)5,0 gNaCl5 g β -Lac I / Penase*Agar15 g β -Lactamase II* Penicillinase = Penase = β -Lactamase IThis medium can be adjusted / or supplemented according to the performance criteria required.			
Irradiation	Gamma-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 			
Units per pack	100 plates			
Shelf life	8 months from production date			
Storage	 Recommended storage temperature: 15-25 °C Should be stored at temperatures as stable as possible 			
Label	On the side, at the bottom			



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Label information	 Product name: TSA Lac I/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	 Incubations in vent and closed position possible Specific design to improve binding of agar to plate Easy handling due to increased handling area 			
Locking lid	 Locking-lid contact plate Bottom part with 1 cm² square grid for facilitated evaluation 			
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	 Turn the lid clockwise to the right to the end into the final stop position The lid locks in the closed position Ideal incubation condition for aerobic micro-organisms Limits the dehydration of the agar during incubation 			
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 to the right to the end into the final stop position Turn the lid clockwise to the right to the end 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 			
Place of production	PharmaMedia Dr. Müller GmbH Gustav-Throm-Str. 1, 69181 Leimen - Germany			





	Quality control, Certificates					
	Each lot of produ	ict can be obtain	ed with a cer	tificate of ar	nalysis (CoA):	
	Physico-chemical test parameters:					
	Appearance	Slightly turbid,	yellowish			
	pH value	7,1-7,5				
	Filling volume	16 – 19 mL				
	Irradiation	9-20 kGy				
	Growth Promo	Growth Promotion test: 10-100 CFU				
	S. aureus	ATCC 6538	30-35 °C	1 day	50-200%	
	E. coli	ATCC 8739	30-35 °C		50-200%	
Certificates	P. aeruginosa	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 8-lacta	amase Plus activ	vity: 10.000-	100.000 CF	:U	
	S. aureus	ATCC 6538	30-35 °C	1 day	No	
					inhibition	
		penicillin (10 IU)				
	No inhibition by	cefazolin (30 µg)			
	Sterility contro	bl			No growth	
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 rev. 3) 					
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). 					
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 comprise all regular tests which are part of the normal release test of this article (see CoA). 					

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Art. 116.0100

TSA + LT + β -Lac I/II CSG Contact plate

	Quality control, Certificates
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 \Rightarrow 1 IU ~ 600 LU Pollock Unit (PU): Pollock Unit: 1 PU ~ 0,0133 IU \Rightarrow 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.
β-lactamase II Synonyms are: Cephase Lactamator Carbamator LacBuster	 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. 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 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	

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