	Technical Data Sheet			
Use in	 Pharmaceutical Industry in clean rooms and isolators For industrial, laboratory & research applications only Basic medium according to EP 2.6.13 and USP <62> 			
Use for	 Detection of aerobic and anaerobic micro-organism Contact sampling, personnel monitoring, as well as active air monitoring Isolation and growth of fastidious bacteria, yeasts and molds Especially designed for use in environments with exposure to penicillins, cephalosporins and carbapenems β-Lactamase 2G is a broad spectrum β-lactamase which is able to inactivate penicillins, the vast majority of the 1st, 2nd, 3rd, 4th and 5th generation cephalosporins as well as carbapenems 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 gGlycine2,0 gAgar15 gβ-Lactamase 2GThis medium can be adjusted / or supplemented according to the performance criteria required.5			
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 			
Units per pack	100 plates			
Shelf life	12 months from production date			
Storage conditions	 Recommended storage temperature: 15-25 °C Should be stored at temperatures as stable as possible Before use: it is recommended to keep the plates upright with the agar always on the bottom For incubation: it is recommended to keep the plates upside down for reducing the risk of condensation dropping on the agar surface, thus affecting colonies growing on the surface 			
Label	On the side, at the bottom part of the plate			

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Label information	 Product name: Lac 2G 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 can be 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, made from polystyrene Inner diameter: 56.5 mm, thus providing an area of 25 cm² Outer diameter: 67.5 mm Bottom part with 1 cm² square grid for facilitated evaluation 		
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 		
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 one click counter-clock-wise to the vent position 2. 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		

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		Quality cont	ol, Certific	ates				
	Each lot of product	can be obtaine	d with a cert	ificate of a	nalysis (CoA):			
	Physico-chemica	Physico-chemical test parameters:						
	Appearance	Slightly turbid, yellowish						
	pH value	7,1 – 7,5						
	Filling volume	16 – 19 mL						
	Irradiation	9-20 kGy						
	Growth Promotio	Growth Promotion test: 10-100 CFU						
	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. spizizenii	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	20-2 5°C	3-5 days	50-200%			
	Test for β-lactama	ase Plus activ	i ty: 10.000-1	100.000 CF	Ū			
	S. aureus	ATCC 6538	30-35 °C	1 day	No inhibition			
	No inhibition by pe	l nicillin (10 II I)	Moropopom	(10 µg) E				
	•	· · /	•	· · • /	napenen			
	(10 µg), Centhaxon	(10 μg), Ceftriaxon (30 μg) and Cefazolin (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	l raw materia guideline: E	als are spe MA/410/01	cified as follows: I 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. 114.0100 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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	Quality control, Certificates					
Inactivation of ß-Lactam- antibiotics: Test procedure	Quality control, CertificatesTests for inactivation of lactam antibiotics are performed on art. 214.0060, TSA+LTG+Lac 2G. The medium of art. 114.0100 and 214.0060 are identical in respect to media composition and enzyme added to the medium.Test procedure: 100µl of test suspension Mac Farland 0.5 are inoculated on a 90mm TSA+LTG-ß-Lactamase 2G plate (artNo. 214.0060). Test disks are applied on the plate directly after inoculation with the test strain. Tests were performed in double. Reference plate used was TSA+LTHT 90mm CSG (art. 200.0060)Result: see table: All tested disks with ß-lactam antibiotics with the exception of ceftazidime are inactivated by PMM TSA+LTG+ß-lactamase 2G plate. As observed before, <i>E. coli</i> seems to be the most sensitive test strain, although due to the qualitative test procedure performed here only with ceftazidime a 					entical in ed on a ks are were G (art. xception te. As hough due a
	TSA+LTG+β-Lactamase 2G plates compared to older generation ß-lactamase plates (like TSA+LTG+β-lactamase +) at least with the following ß-lactam antibiotics: Ceftazidim, Cefotaxim, Ceftriaxone, Cefixim and Cefepim as well as a mix of Amoxicillin/Clavulinate Antibiotic Disk Name Test Disk P. paraeruginosa ATCC 9027 B. spizizenii ATCC 8538 E. coli ATCC 6533 S. aureus ATCC 6538 Ampicillin 25µg AMP-25 ++ ++ ++ ++ ++					
	Sulbactam 10µg/Amp 20µg	SAM-30	++	++	++	++
	Amxicillin 25µg	AML-25	++	++	++	++
	Amoxicillin / Clavulinate 30µg	AMC-30	++	++	++	++
	Piperacillin 100µg	PRL- 100	++	++	++	++
	Piperazillin 30mg/Tazobactam 10µg	TZB-40	++	++	++	++
Inactivation of	Penicillin V 10µg	PV-10	++	++	++	++
ß-Lactam-	Penicillin 10 IE	P-10	++	++	++	++
antibiotics:	Oxacillin 5µg	Ox-5	++	++	++	++
antibiotics.	Nafcillin 1µg	NF-1	++	++	++	++
Test results	Cefazolin 30µg	KZ-30		++		1 1
			++		++	++
Disk test	Cephalexin 30 µg	CL-30	++	++	++	
	Cephalexin 30 µg Cephadroxil 30 µg	CL-30 CFR-30				++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg	CL-30 CFR-30 CXM-30	++	++ ++ ++	++	++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg	CL-30 CFR-30 CXM-30 CPR-30	++ ++ ++ ++	++ ++ ++ ++	++ ++ ++ ++	++ ++ ++ ++ ++ ++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10	++ ++ ++ ++ ++	++ ++ ++ ++ ++	++ ++ ++	+++ +++ +++ +++ +++ +++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30	++ ++ ++ ++ ++ +	++ ++ ++ ++ ++ ++ ++	+++ +++ +++ 0	+++ +++ +++ +++ +++ +++ +++ +++
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	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg Cefotaxim 30µg Cefotaxim 30µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30 CTX-30 CRO-30	++ ++ ++ ++ + + + + + ++ ++	++ ++ ++ ++ ++ ++ ++ ++ ++	++ ++ ++ 0 0 ++ ++	+++ +++ +++ +++ +++ +++ +++ +++ +++ ++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg Cefotaxim 30µg Ceftriaxon 30µg Ceftriaxon 30µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30 CTX-30 CRO-30 CFM-5	++ ++ ++ ++ + + + + + ++ ++ ++	++ ++ ++ ++ ++ ++ ++ ++ ++ ++	++ ++ ++ 0 0 ++ ++ ++ ++	+++ +++ +++ +++ +++ +++ +++ +++ +++ ++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg Ceftaxim 30µg Ceftriaxon 30µg Cefoxim-5µg Cefpodoxim 10µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30 CTX-30 CRO-30 CFM-5 CPD-10	++ ++ ++ ++ + + + + + + ++ ++ ++	++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	+++ +++ -++ 	+++ +++ +++ +++ +++ +++ +++ +++ +++ ++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg Cefotaxim 30µg Cefotaxim 30µg Cefotiaxon 30µg Cefoxim-5µg Cefpodoxim 10µg Ceftiofur 30µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30 CTX-30 CTX-30 CRO-30 CFM-5 CPD-10 EFT-30	++ ++ ++ ++ + + + + + ++ ++ ++ ++	+++ +++ +++ ++ ++ ++ +++ +++ +++ +++ +	++ ++ ++ • • • • • ++ ++ ++ ++ ++	++ ++
	Cephalexin 30 µg Cephadroxil 30 µg Cefuroxim 30µg Cefprozil 30µg Ceftazidim 10 µg Ceftazidim 30µg Ceftaxim 30µg Ceftriaxon 30µg Cefoxim-5µg Cefpodoxim 10µg	CL-30 CFR-30 CXM-30 CPR-30 CAZ-10 CAZ-30 CTX-30 CRO-30 CFM-5 CPD-10	++ ++ ++ ++ + + + + + + ++ ++ ++	++ ++ ++ ++ ++ ++ ++ ++ ++ ++ ++	+++ +++ -++ 	+++ +++ +++ +++ +++ +++ +++ +++ +++ ++

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

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