

## TRYPTONE SOY AGAR (TSA)+ NEUTRALIZERS+ LACTAMATOR™

<b>APPLICATION</b>	<p>Tryptic Soy Agar (TSA) with Neutralizers and Lactamator™ is used for detection and enumeration of microorganisms with inactivation of antibiotics and disinfectants/antiseptics.</p> <p>The formulation of the basic medium complies with the recommendations of the harmonized method in the United States Pharmacopoeia (USP) and European Pharmacopoeia (EP).</p>																															
<b>PRINCIPLE AND INTERPRETATION</b>	<p>Lactamator™ is an innovative enzyme developed by CPC Biotech and specifically designed for the inactivation of a wide range of beta-lactam antibiotics.</p> <p>Lactamator™, combination of a specific broad spectrum cephalosporinase and penicillinase, efficiently inactivates penicillins, cephalosporins of first, second, third, fourth, fifth generation and penems.</p> <p>Sodium Chloride maintains osmotic equilibrium. Casein Peptone and Soy peptone provide nitrogenous compounds and other nutrients essential for microbial replication (amino acids and long chain peptides).</p> <p>The inactivation of residues of disinfectants is critical for the detection of viable and cultivable microorganisms in pharmaceutical production environments. For this purpose, different neutralizer combinations are added to the medium used for environmental monitoring.</p> <p>Lecithin neutralizes quaternary ammonium compounds, Tween 80 is effective against phenolic compounds and mercurial derivatives, Histidine inactivate aldehydes, Sodium thiosulfate neutralizes halogen compounds and Glycine neutralizes aldehydes formaldehyde.</p> <p>Agar is the solidifying agent.</p>																															
<b>MEDIUM COMPOSITION*</b>	<p><b>TSA + Lecithin+ Tween 80 (MCTA) + Lactamator™ 1000 UI/L</b></p>	<table border="0"> <tr><td>Casein peptone</td><td>.....</td><td>15.00 g/l</td></tr> <tr><td>Soy peptone</td><td>.....</td><td>5.00 g/l</td></tr> <tr><td>Sodium chloride</td><td>.....</td><td>5.00 g/l</td></tr> <tr><td>Lecithin</td><td>.....</td><td>0.70 g/l</td></tr> <tr><td>Tween80</td><td>.....</td><td>5.00 g/l</td></tr> <tr><td>Agar</td><td>.....</td><td>15.00 g/l</td></tr> <tr><td>Cephalosporinase</td><td>.....</td><td>1000 IU/l</td></tr> <tr><td>Penicillinase</td><td>.....</td><td>10000 IU/l</td></tr> <tr><td>pH 7.3 ± 0.2</td><td></td><td></td></tr> </table> <p>*Adjusted and / or supplemented as required to meet performances criteria</p>	Casein peptone	.....	15.00 g/l	Soy peptone	.....	5.00 g/l	Sodium chloride	.....	5.00 g/l	Lecithin	.....	0.70 g/l	Tween80	.....	5.00 g/l	Agar	.....	15.00 g/l	Cephalosporinase	.....	1000 IU/l	Penicillinase	.....	10000 IU/l	pH 7.3 ± 0.2					
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<b>STORAGE</b>	<p>+2°C/+25°C</p> <p>Protect from light, excessive heat, moisture and freezing</p>																															

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<b>QUALITY CONTROL</b>	<b>Growth Promotion Test:</b> 10-100 viable microorganisms												
	<b>Control strain</b>	<b>Incubation Conditions</b>	<b>Specifications</b>										
	<i>E. coli</i> ATCC 8739	24-72 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
	<i>P. aeruginosa</i> ATCC 9027	24-72 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
	<i>S. aureus</i> ATCC 6538	24-72 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
	<i>B. subtilis</i> ATCC 6633	24-72 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
	<i>C. albicans</i> ATCC 10231	72-120 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
	<i>A. brasiliensis</i> ATCC 16404	72-120 h at 32.5 ± 2.5°C	70% ≤ R% ≤ 200%										
<b>Sterility control</b>		No growth											
<b>Appearance</b>		Light yellow coloured, clear to slightly opalescent gel forms in plates											
<b>BARCODE</b>	<p>Data matrix code is composed of 20 digits:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;"><b>Digits 1→2</b></td> <td>Media code</td> </tr> <tr> <td><b>Digits 3→7</b></td> <td>Batch number</td> </tr> <tr> <td><b>Digits 8→9</b></td> <td>Sub-batch number</td> </tr> <tr> <td><b>Digits 10→14</b></td> <td>Progressive number</td> </tr> <tr> <td><b>Digits 15→20</b></td> <td>Expiry Date (DDMMYY)</td> </tr> </table>			<b>Digits 1→2</b>	Media code	<b>Digits 3→7</b>	Batch number	<b>Digits 8→9</b>	Sub-batch number	<b>Digits 10→14</b>	Progressive number	<b>Digits 15→20</b>	Expiry Date (DDMMYY)
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<b>GENERAL WARNING NOTES</b>	<p>Device must be handled according to asepsis precautions, of utilization of culture media is strictly referred to the type of analysis that must be done. Please refer to specific norms and procedures. Do not use if device is broken. Do not use if media shows accidental contamination signs. Do not utilize after expiry date. Let device reach room temperature before utilizing. Results interpretation must be done by qualified personnel, who must consider context of use.</p> <p>Disposal of waste must be carried out according to national and local regulations in force</p>												

# Technical Data



## TRYPTONE SOY AGAR (TSA)+ NEUTRALIZERS+ LACTAMATOR™

This item is available in:

- Gamma irradiated media plates TSA + Lecithin+ Tween 80 (MCTA) + Lactamator™ 1000 UI/L

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø 90mm	449LAC1000/22	449LAC1000/22.100 (100pcs/pack)	<b>Filling volume:</b> 30ml ± 1ml <b>Packaging:</b> Triple Wrapped Sterile Irradiated (TWSI) <b>Dose of irradiation:</b> 10-25 KGy	8 months
		449LAC1000/22.200 (200pcs/pack)		
Rodac Ø 55mm	449LAC1000/21	449LAC1000/21.120 (120pcs/pack)	<b>Filling volume:</b> 17ml ± 1ml <b>Packaging:</b> Triple Wrapped Sterile Irradiated (TWSI) <b>Dose of irradiation:</b> 10-25 KGy	8 months
		449LAC/21.240 (240pcs/pack)		

- Gamma irradiated media plates TSA + Lecithin+ Tween 80 (MCTA) + Glycine+ Lactamator™ 1000 UI/L

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*Customized filling volumes and formulations are available upon request*

To receive information please contact [info@cpcbiotech.it](mailto:info@cpcbiotech.it)