

TRYPTONE SOY AGAR (TSA)/ TRYPTONE SOY AGAR (TSA)+ NEUTRALIZERS

APPLICATION	Tryptic Soy Agar (TSA) is a non selective isolation medium used for the growth of bacteria which do not have specific nutritional requirements and for the preparation of reference strains with the aim of growth promotion tests of culture media. This medium complies with the recommendations of the harmonized method in the United States Pharmacopoeia (USP) and European Pharmacopoeia (EP).																		
PRINCIPLE AND INTERPRETATION	<p>Tryptone Soy Agar plates are provided for environmental monitoring and in particular for air-monitoring inside environmentally-controlled areas. These plates are utilized both in air sampling equipment and as settle plates monitoring as well.</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: Lecithin, Tween 80, Histidine and S-Thiosulfate.</p> <p>Lecithin neutralizes quaternary ammonium compounds, Tween 80 is effective against phenolic compounds and mercurial derivate and Histidine inactivate aldehydes, Sodium thiosulfate neutralizes halogen compounds. Agar is the solidifying agent.</p>																		
MEDIUM COMPOSITION*	TSA	<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>Agar</td><td>.....</td><td>15.00 g/l</td></tr> </table> <p>Final pH 7.3 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p>	Casein peptone	15.00 g/l	Soy peptone	5.00 g/l	Sodium Chloride	5.00 g/l	Agar	15.00 g/l					
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	<p>TSA + Lecithin+ Tween 80+ Histidine+ S- Thiosulfate</p>	<p>Casein peptone15.00 g/l Soy peptone5.00 g/l Sodium Chloride5.00 g/l Lecithin0.70 g/l Tween805.00 g/l Histidine1.00 g/l S-Thiosulphate0.50 g/l Agar15.00 g/l</p> <p>Final pH 7.3 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p>
	<p>TSA REKITT</p>	<p>Casein peptone15.00 g/l Soy peptone5.00 g/l Sodium Chloride5.00 g/l Lecithin3.00 g/l Tween8010.00 g/l Agar15.00 g/l</p> <p>Final pH 7.3 ± 0.2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p>
STORAGE	<p>+2°C/+25°C</p> <p>Protect from light, excessive heat, moisture and freezing</p>	
MELTING INSTRUCTIONS FOR BOTTLE	<p>Prior to use, melt the agar using water bath at 95-100°C for 55 min or autoclave at 105°C for 5 min. <i>Slightly open the screw cap in order to avoid pressure building before heating the media</i></p> <p>Once the agar is liquefied, allow the media to cool down in water bath at 45-50°C.</p>	

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QUALITY CONTROL	Growth Promotion Test: 10-100 viable microorganisms												
	Control strain	Incubation Conditions	Specifications										
	<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%										
Sterility control		No growth											
Appearance		Light yellow coloured, clear to slightly opalescent gel forms in plates											
BARCODE on media plates	<p>Data matrix code is composed of 20 digits:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Digits 1→2</td> <td>Media code</td> </tr> <tr> <td>Digits 3→7</td> <td>Batch number</td> </tr> <tr> <td>Digits 8→9</td> <td>Sub-batch number</td> </tr> <tr> <td>Digits 10→14</td> <td>Progressive number</td> </tr> <tr> <td>Digits 15→20</td> <td>Expiry Date (DDMMYY)</td> </tr> </table>			Digits 1→2	Media code	Digits 3→7	Batch number	Digits 8→9	Sub-batch number	Digits 10→14	Progressive number	Digits 15→20	Expiry Date (DDMMYY)
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GENERAL WARNING NOTES	<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>												

TRYPTONE SOY AGAR (TSA)/ TRYPTONE SOY AGAR (TSA)+ NEUTRALIZERS

This item is available in:

➤ Sterile bottled TSA

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
200ml	290/31PSC28.200	290/31PSC28.200.10 (10 bottles/pack)	200 ml in 250ml volume, PP28 Screw Cap Bottle	1 year
500ml	290/33PSC28.500	290/33PSC.500.10 (10 bottles/pack)	500ml in 1000ml volume, PP28 Screw cap bottle	1 year
800ml	290/33PSC28.800	290/33PSC28.800.10 (10 bottles/pack)	800ml in 1000ml volume, PP28 Screw cap bottle	1 year

➤ Sterile bottled TSA+NEUTRALIZERS

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
800ml	290RKT/33PSC28.800	290RKT/33PSC28.800.10	TSA RECKITT 800ml in 1000ml volume, PP28 Screw cap bottle	1 year

➤ Gamma irradiated TSA plates

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	290/22	290/22.100 (100 pcs/pack)	Filling volume: 30ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	8 months
		290/22.200 (200 pcs/pack)		

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➤ **Gamma irradiated TSA+NEUTRALIZERS plates**

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	449INHY/22	449INHY/22.100 (100 pcs/pack)	TSA + Lecithin+Tween 80 +Histidine+ S-Thiosulfate Filling volume: 30ml	8 months
		449INHY/22.200 (200 pcs/pack)	Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	
RODAC Ø55mm	449INHY/21	449INHY/21.120 (120 pcs/pack)	TSA + Lecithin +Tween 80 + Histidine + S-Thiosulfate Filling volume: 17ml	8 months
		449INHY/21.240 (240 pcs/pack)	Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	
Ø90mm	449/22	449/22.100 (100 pcs/pack)	TSA + Lecithin +Tween 80 (MCTA) Filling volume: 30ml	8 months
		449/22.200 (200 pcs/pack)	Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	
RODAC Ø55mm	449/21	449/21.120 (120 pcs/pack)	TSA + Lecithin +Tween 80 (MCTA) Filling volume: 17ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	8 months
RODAC Ø55mm	290L/21	290L/21.240 (240 pcs/pack)	TSA + Lecithin Filling volume: 17ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: 10-25 kGy	8 months

➤ **Not irradiated TSA plates**

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø90mm	290/10	290/10.100 (100 pcs/pack)	Filling volume: 30ml Packaging: Single Wrapping (SW)	8 months

Customized filling volumes and formulations are available upon request

To receive information please

contact info@cpcbiotech.it