

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

APPLICATION	<p>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).</p>	
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, Glycine and S-Thiosulfate.</p> <p>Lecithin neutralizes quaternary ammonium compounds, Tween 80 is effective against phenolic compounds and mercurial derivatives, Histidine and Glycine inactivate aldehydes, Sodium thiosulfate neutralizes halogen compounds. Agar is the solidifying agent.</p>	
MEDIUM COMPOSITION*	TSA	<p>Casein peptone.....15.00 g/l Soy peptone.....5.00 g/l Sodium Chloride.....5.00 g/l Agar.....15.00 g/l</p> <p>Final pH 7,3 ± 0,2</p> <p>* Adjusted and /or supplemented as required to meet performance criteria</p>
	TSA + Lecithin+ Tween 80 (MCTA)	<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</p> <p>Final pH 7.3 ±0.2</p> <p>*Adjusted and/or supplemented to meet performances criteria</p>
	TSA + Lecithin+ Tween 80 +Glycine + S-Thiosulphate	<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 Glycine.....0.20 g/l S-Thiosulphate.....0.50 g/l Agar.....15.00 g/l</p> <p>Final pH 7.3 ±0.2</p> <p>*Adjusted and/or supplemented to meet performances criteria</p>

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STORAGE	<p>+2°C/+25°C</p> <p>Protect from light, excessive heat, moisture and freezing</p>																													
QUALITY CONTROL	<p>Growth Promotion Test:</p> <table border="1"> <thead> <tr> <th>Control strain</th> <th>Medium inoculation level</th> <th>Incubation Conditions</th> <th>Recovery Specifications</th> </tr> </thead> <tbody> <tr> <td><i>E. coli</i> ATCC 8739</td> <td>10-100 viable microorganisms</td> <td>24-72 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> <tr> <td><i>P. aeruginosa</i> ATCC 9027</td> <td>10-100 viable microorganisms</td> <td>24-72 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> <tr> <td><i>S. aureus</i> ATCC 6538</td> <td>10-100 viable microorganisms</td> <td>24-72 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> <tr> <td><i>B. subtilis</i> ATCC 6633</td> <td>10-100 viable microorganisms</td> <td>24-72 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> <tr> <td><i>C. albicans</i> ATCC 10231</td> <td>10-100 viable microorganisms</td> <td>72-120 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> <tr> <td><i>A. brasiliensis</i> ATCC 16404</td> <td>10-100 viable microorganisms</td> <td>72-120 h at 32.5 ± 2.5°C</td> <td>70%≤R%≤200%</td> </tr> </tbody> </table> <p>Sterility control: no growth</p> <p>Appearance: light yellow coloured, clear to slightly opalescent gel forms in plates</p>		Control strain	Medium inoculation level	Incubation Conditions	Recovery Specifications	<i>E. coli</i> ATCC 8739	10-100 viable microorganisms	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	<i>P. aeruginosa</i> ATCC 9027	10-100 viable microorganisms	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	<i>S. aureus</i> ATCC 6538	10-100 viable microorganisms	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	<i>B. subtilis</i> ATCC 6633	10-100 viable microorganisms	24-72 h at 32.5 ± 2.5°C	70%≤R%≤200%	<i>C. albicans</i> ATCC 10231	10-100 viable microorganisms	72-120 h at 32.5 ± 2.5°C	70%≤R%≤200%	<i>A. brasiliensis</i> ATCC 16404	10-100 viable microorganisms	72-120 h at 32.5 ± 2.5°C	70%≤R%≤200%
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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
400ml	290/33PSC28.400	290/33PSC28.400.10 (10 bottles/pack)	400ml in 1000ml 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
200ml	449/31PSC28.200	449/31PSC28.200.10	TSA + Lecithin + Tween 80 (MCTA) 200ml in 250ml 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: ≥ 25kGy	6 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 +Histidina+ S-Thiosulfato Filling volume: 30ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: ≥ 25kGy	6 months
		449INHY/22.200 (200 pcs/pack)		
RODAC	449INHY/21	449INHY/21.120 (120 pcs/pack)	TSA + Lecithin +Tween 80 + Histidina + S-Thiosulfato Filling volume: 17ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: ≥ 25kGy	6 months
		449INHY/21.240 (240 pcs/pack)		
RODAC	449/21	449/21.120.120 (120 pcs/pack)	TSA + Lecithin +Tween 80 (MCTA) Filling volume: 17ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: ≥ 25kGy	6 months
		449/21.240 (240 pcs/pack)		
RODAC	449GS/21	449GS/21.120 (120 pcs/pack)	TSA + Lecithin +Tween 80 + Glycine + S-Thiosulphate Filling volume: 17ml Packaging: Triple Wrapped Sterile (TWSI) Dose of irradiation: ≥ 25kGy	6 months
		449GS/21.240 (240 pcs/pack)		

➤ Non irradiated TSA plates

MODEL	PRODUCT CODE	ORDER CODE	DESCRIPTION	SHELF LIFE
Ø60mm	290/14	290/14.100 (100 pcs/pack)	Filling volume: 10ml Packaging: Single Wrapped (SW)	6 months
Ø90mm	290/10	290/10.100 (100 pcs/pack)	Filling volume: 24ml Packaging: Single Wrapping (SW)	6 months

Customized filling volumes and formulations are available upon request

To receive information please

contact info@cpcbiotech.it