



Reference : 01-613

Scharlau Microbiology - Technical data sheet

Product :  
MICROBIAL CONTENT TEST AGAR (TSA LECITHIN  
& POLYSORBATE)

**Also known as**

TSA with Lecithin and Tween

**Specification**

Solid medium for the sampling of surfaces of sanitary importance using the contact plate technique.

**Formula \* in g/L**

Tryptone .....	15.00
Soy peptone .....	5.00
Sodium chloride .....	5.00
Lecithin .....	0.70
Polysorbate 80.....	5.00
Agar .....	15.00

Final pH 7.3 ±0.2 at 25 °C

\* Adjusted and /or supplemented as required to meet performance criteria

**Directions**

Suspend 45,7 g of powder in 1 L of distilled water and bring to the boil, distribute into suitable containers and sterilize in the autoclave at 121°C for 15 minutes.

**Description**

This medium is a modification of the classical TSA for surface sampling by the contact plate technique. Lecithin and Polysorbate 80 are incorporated to neutralize quaternary ammonium compounds, phenolic disinfectants, hexachlorophene, formalin and ethanol.

The dehydrated medium has a characteristic "brown sugar" appearance and may seem moist due to the inclusion of these agents.

Collection of samples from identical areas (replicate) "before and after" treatment with disinfectant yields data useful for evaluating cleaning procedures in environmental sanitation.

**Quality control**

**Incubation temperature:** 30-35 °C

**Incubation time:** 24-48 h - 5 days

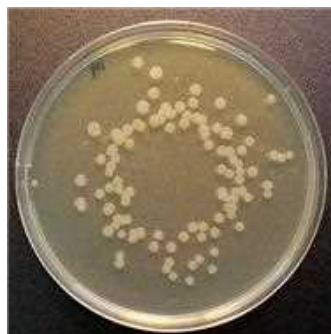
**Inoculum:** Practical range 50-100 CFU (productivity), according to Ph.Eur. and ISO 11133:2014/Amd 1:2018 . Spiral Plate Method.

**Microorganism**

**Growth**

**Remarks**

<i>Staphylococcus aureus</i> ATCC® 6538	Productivity > 0.70	-
<i>Pseudomonas aeruginosa</i> ATCC® 27853	Productivity > 0.70	-
<i>Bacillus subtilis</i> ATCC® 6633	Productivity > 0.70	-
<i>Escherichia coli</i> ATCC® 8739	Productivity > 0.70	-
<i>Aspergillus brasiliensis</i> ATCC® 16404	Productivity > 0.70	5 d (Black sporulation)
<i>Candida albicans</i> ATCC® 10231	Productivity > 0.70	48 h



*Bacillus subtilis* ATCC 6633



*Escherichia coli* ATCC 8739



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### References

- ATLAS, R.M. & L.C. PARKS (1993) Handbook of Microbiological Culture Media. CRC Press. Boca Ratón. Fla.
- EVANCHO, G.M., W.H. SVEUM, LL. J. MOBERG & J.F. FRANK (2001) Microbiological Monitoring of the Food Processing Environment. In Downes & Ito (Eds) Compendium of Methods for the Microbiological Examination of Foods. 4th ed. APHA. Washington. DC.
- HICKEY, P.J., C.E. BECKELHEIMER & T. PARROW (1992) Microbiological tests for equipment, containers, water and air. In R.T. Marshall (Ed.) Standard Methods for the examination of Dairy Products. 16th ed. APHA. Washington. DC.
- ISO 11133:2014/ Adm 1:2018. Microbiology of food, animal feed and water. Preparation, production, storage and performance testing of culture media.

### Storage

For laboratory use only. Keep tightly closed, away from bright light, in a cool dry place (+4 °C to 30 °C).