

Caseinpepton-Sojamehlpepton-Agar mit LTH (TSA-LTH)

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|----------------------------|-----------------------------------|
| Shorthand symbol: | TSA-LTH |
| Item number: | 50-1531 |
| Format: | Contact plate |
| Colour: | Yellow |
| Storage conditions: | Dry, in closed bag, at 15 – 22°C. |
| Shelf-life: | 6 Months |
| pH: | 7.3 ± 0.2 bei 25°C |



Intended use and fields of application

Tryptone Soya Agar is a highly nutritious universal medium for the testing non-sterile products. It is suitable as an inhibitor-free culture medium for the isolation and cultivation of various fastidious bacteria, yeasts and moulds (aerobic and anaerobic).

The variety of detectable microorganisms with Tryptone Soya Agar is due to the casein protein components in the nutrient medium being enzymatically hydrolysed into peptones. This makes it possible to isolate and detect bacteria including: *Listeria* spp, *Pasteurella* spp, *Vibrio* spp, *Haemophilus vaginalis* or *Candida albicans*.

Tryptone Soya Agar does not contain any carbohydrate, so it can be used for the study of hemolytic reactions. The European Pharmacopeia recommends Tryptone Soya Agar for total bacteria enumeration in products under examination by this pour or spread plate technique.

The addition of lecithin, Tween 80 and histidine neutralises the inhibitory effect on growth caused by aldehydes contained in many detergents and disinfectants, phenols, Hexachlorophene, chlorhexidine, formaldehyde and quaternary ammonium compounds used in preservatives and biocides.

Typical composition in g/l

in g per 1 litre of Nutrient Medium

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|-------------------------------------|------|
| Pancreatic-digest of Casein Peptone | 15.0 |
| Enzyme-digest of Soya Bean Pepton | 5.0 |
| Sodium Chloride | 5.0 |
| Lecithin | 0.7 |
| Tween 80 | 5.0 |
| L-Histidine | 0.5 |
| Agar | 15.0 |

Microbiological quality control

the Microbiological Performance Test is carried out in accordance with the requirements BS EN ISO 11133:2014 and PhEur. (Microbiological Examination of Non-Sterile Products in accordance with Chapter 2.6.13.

Productivity

Incubation conditions: 2–3 days at 30–35°C; Inoculum concentration: 10–100 CFU

| Organism | Type Strain | Specification | Colony morphology |
|--|-------------------------|---------------|---|
| Staphylococcus aureus | ATCC 6538 / WDCM 00032 | 50–200 % | Medium, slightly yellowish colonies |
| Pseudomonas aeruginosa | ATCC 9027 / WDCM 00026 | 50–200 % | Medium, slightly yellowish colonies |
| Bacillus subtilis | ATCC 6633 / WDCM 00003 | 50–200 % | Large, flat, dry, irregularly shaped colonies |
| Candida albicans | ATCC 10231 / WDCM 00054 | 50–200 % | Small, white, dry colonies |
| Aspergillus brasiliensis | ATCC 16404 / WDCM 00053 | 50–200 % | Dark brown to black conidia on light mycelium |
| Candida albicans (3–5 days at 20–25°C) | ATCC 10231 / WDCM 00054 | 50–200 % | Small, white, dry colonies |
| Aspergillus brasiliensis (3–5 days at 20–25 °C) | ATCC 16404 / WDCM 00053 | 50 – 200 % | Dark brown to black conidia on light mycelium |

Microbial contamination

Incubation conditions: 5–7 days at 20–25°C and 5–7 days at 30–35 °C

Specification

No growth present