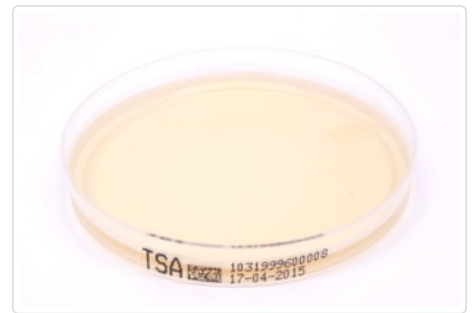


## Caseinpepton-Sojamehlpepton-Agar harm. EP/USP/JP (TSA)

Recommended by the Harmonised European Pharmacopoeia

<b>Shorthand symbol:</b>	TSA
<b>Item number:</b>	40-1031
<b>Format:</b>	Petri Dish, 90mm
<b>Colour:</b>	Yellowish
<b>Storage conditions:</b>	Dry, in closed bag, at 15 – 22°C.
<b>Shelf-life:</b>	6 Months
<b>pH:</b>	7.3 ± 0.2 at 25°C



### Intended use and fields of application

Tryptone Soya Agar is used for the microbiological examination of non-sterile products. A general purpose agar medium, containing two peptones, which will support the growth of a wide variety of organisms. It is suitable for the cultivation of both aerobic and anaerobic bacteria, the latter being grown either in deep cultures or by incubation under anaerobic conditions as well as yeasts and moulds.

The high number of microorganisms detectable, using Tryptone Soya Agar is due to the addition of peptones gained from enzymatic hydrolysis of casein protein and soya proteins. It therefore includes - besides others - the detection of *Listeria* spp, *Pasteurella* spp, *Vibrio* spp, *Haemophilus vaginalis* or *Candida* spp.

Tryptone Soya Agar contains no carbohydrates, so it can be used in the investigation of haemolytic reactions. The Pharmacopoeia European (PhEur) recommends TSA for the enumeration of Total Viable Count in products under examination for microbial load.

### Typical composition in g/l

#### in g per 1 litre of medium

Pancreatic-digest of Casein Peptone	15.0
Enzyme-digest of Soya Bean Peptone	5.0
Sodium Chloride	5.0
Agar	15.0

\*Adjusted as required to meet performance standards

## Microbiological quality control

The Microbiological Performance Test is carried out in accordance with the requirements of ISO 11133:2014 and/or 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: 80–120 CFU

Organism	Type Strain	Specification	Colony morphology
<i>Pseudomonas aeruginosa</i>	ATCC 9027 / WDCM 00026	>70%	Medium-sized, yellowish colonies
<i>Escherichia coli</i>	ATCC 8739 / WDCM 00012	>70%	Yellow colonies
<i>Clostridium perfringens</i>	ATCC 13124 / WDCM 00007 (anaerobic incubation)	>70 %	White colonies
<i>Enterococcus faecalis</i>	ATCC 29212 / WDCM 00087	>70 %	White colonies

### Microbial Contamination

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

### Specification

No microbial contamination