

# Tryptic Soy Agar (TSA)

## CASO Agar (Casein-peptone Soymeal-peptone Agar)

Universal culture media free from inhibitors and indicators for a wide spectrum of applications.

### General Information

This medium complies with the recommendations of the harmonised method in the European Pharmacopeia 5.6 and the United States Pharmacopeia 29 (2006).

### Typical Composition (g/litre)

Peptone from casein 15.0; peptone from soymeal 5.0; sodium chloride 5.0; agar-agar 15.0.

### Preparation

Suspend 40 g/litre, autoclave (15 min at 121 °C).

pH: 7.3 ± 0.2 at 25 °C.

After preparation this medium is clear and yellowish-brown.

### Experimental Procedure and Evaluation

Depend on the purpose for which the media are used.

Incubation: 24 hours at 35 °C aerobically, for *Candida albicans* and *Aspergillus niger* up to 5 days at 35°C. For sterility-tests at room-temperature up to 1days..

### Literature

European Pharmacopeia 5.6, Chapter 2.6.12 and 2.6.13 B (harmonised Method)

HAWKEY, P.H., MCCORMICK, A., a. SIMPSON, R.A.: Selective and differential medium for the primary isolation of members of the proteae. – *J. Clin. Microbiol.* 23; 600-603 (1986).

United States Pharmacopeia 29-NF 24, Chapter 61 and Chapter 62, Microbial examination of non-sterile products: Tests for specified microorganisms, 2006

### Ordering Information

| Product                | Ordering No. | Pack size |
|------------------------|--------------|-----------|
| Tryptic Soy Agar (TSA) | 1.05458.0500 | 500 g     |
| Tryptic Soy Agar (TSA) | 1.05458.5000 | 5 kg      |

### Quality control (spiral plating method)

| Test strains                             | Inoculum [CFU] | Recovery (%) |
|--|----------------|--------------|
| <i>Escherichia coli</i> ATCC 8739        | 10-100         | ≥ 70         |
| <i>Pseudomonas aeruginosa</i> ATCC 9027  | 10-100         | ≥ 70         |
| <i>Streptococcus pyogenes</i> ATCC 21059 | 10-100         | ≥ 70         |
| <i>Bacillus subtilis</i> ATCC 6633       | 10-100         | ≥ 70         |
| <i>Candida albicans</i> ATCC 10231       | 10-100         | ≥ 70         |
| <i>Aspergillus niger</i> ATCC 16404      | 10-100         | ≥ 70         |
| <i>Staphylococcus aureus</i> ATCC 6538   | 10-100         | ≥ 70         |