

## PERFRINGENS (TSC+SFP) AGAR BASE

A selective and differential medium for the enumeration and presumptive identification of *Clostridium perfringens* according to some ISO regulations.

Dehydrated media	
Code number:	500 g: PAB20500, 5 kg: PAB25000
Colour:	Yellowish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	7,4 – 7,8

**Direction for TSC/SFP Agar:** Suspend **22,5 g** in 470 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically **25 ml of Sterile Egg Yolk Emulsion (EYE80025)** and the contents of **one vial of Perfringens Selective Supplement, TSC (PSS80004)** or **Perfringens Selective Supplement, SFP (PFS80004)** reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

**Direction for Egg Yolk Free TSC/SFP Agar:** Suspend **22,5 g** in 500 ml of distilled water and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically the contents of **one vial of Perfringens Selective Supplement, TSC (PSS80004)** or **Perfringens Selective Supplement, SFP (PFS80004)** reconstituted with 4 ml of sterile distilled water. Mix well before pouring.

Prepared media	
Bottled media bases:	100 ml: PAB30100, 500 ml: PAB30500
Plated TSC Agar with egg yolk:	55 mm: PAB50055-01, 90 mm: PAB50090-01
Plated TSC Agar, egg yolk free:	55 mm: PAB50055-02, 90 mm: PAB50090-02
Plated SFP Agar with egg yolk:	55 mm: PAB50055-03, 90 mm: PAB50090-03
Plated SFP Agar, egg yolk free:	55 mm: PAB50055-04, 90 mm: PAB50090-04
Colour of bottled media:	Yellowish
Colour of plated media with egg yolk:	Yellowish, turbid
Colour of plated media, egg yolk free:	Yellowish, transparent
pH (25 °C)	7,5 – 7,7

**Direction:** Supplement the melted bottled media bases according to the direction of the dehydrated media and dispense aseptically into sterile Petri-dishes. Media in Petri-dishes are ready to use.

### FORMULA in g/l

Casein peptone	15
Soya peptone	5
Yeast extract	5
Sodium metabisulphite	1
Ferric ammonium citrate	1
Agar	18

**Note:** The typical formula can be adjusted to obtain optimal performance.

**Storage conditions:** Store the dehydrated media tightly closed in a dry place at room temperature. Store the bottled media protected from light at room temperature. Store the plated media protected from light at 2-8 °C. Use before the expiry date on the label.

#### Quality control:

Test strains	Incubation temp: 44 °C	Growth	Incubation time: 48 h
<i>Clostridium perfringens</i> ATCC 13124		Good, black colonies (under anaerobic conditions)	

**References:** Harmon et al. (1971) J. Appl. Microbiol. 22: 688.  
ISO 7937:2004; ISO 15213:2006; ISO 14189:2013

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