

**PRODUCT CODE: 433819**

## **Tryptone Soy Agar (TSA) (Ph. Eur.) (Contact Plate) for microbiology**

### **Specification**

General purpose medium containing animal and plant peptone, according to harmonized pharmacopoeial monographs and test methods.

### **Presentation**

<b>30 Contact Plates/lrd</b>	<b>Packaging Details</b>	<b>Shelf life</b>	<b>Storage</b>
Contact Plates - Double Wrapping with: 15 ± 2 ml.	1 box with 5 blisters (base of aluminium, PVDC and bag) with 6 contact plates/blister.  Every pack exhibits an irradiation indicator (8-14kGy).	7 months	2-25°C

### **Description and Technique**

#### Description

TSA is a widely used medium containing two peptones which support the growth of a wide variety of organisms, even that of very fastidious ones such as *Neisseria*, *Listeria*, *Brucella*, etc.

It is frequently used for routine diagnostic purposes due to its reliability and its easily reproducible results. Classical media for microbiological examination of non-sterile products according to Pharmacopoeial Harmonised Methods.

#### Technique

Contact plates are used in the microbiological control of disinfection and cleaning of surfaces. It acts simultaneously as a sampler and incubation culture medium without the need for any other intermediate steps.

The plates come in a form appropriate for this function and can be used with different culture media depending on the type of microbe that needs to be controlled. On average the plates provide a contact surface of approximately 25 cm<sup>2</sup>.

To use, remove the cover and gently press the culture medium on the surface to be controlled, ensuring contact between the two surfaces. The Contact plate is removed and covered with the lid to prevent air contamination. It is advisable that the lid is secured with adhesive tape and the bottom labelled with the sampling data (place, date and time).

If the sample surfaces are rough, the contact plates will not make good contact, even when the pressure is increased. In these cases it is advisable to delineate an sample surface area of 25 cm squared and rub this area vigorously with a wet sterile swab and then rub the swab over the Contact plate.

If verifying the effectiveness of a cleaning or disinfection process, contact plates should be used within two hours after the end of the process, ensuring that the sample surface is dry. It is advisable to always include positive controls, sampling the area before disinfection or dirty areas beside the disinfected area.

The technician will determine the frequency of sampling and disinfection according to performance criteria. Apply the agar directly onto surface to be monitored ensuring that the pressure is distributed over the whole plate for 10 seconds.

Clean the surface where the sample was collected in order to remove any traces of agar. The inoculated plates are incubated at 30-35 °C for 24-72 h (bacteria) and 3-5 days for fungi (yeast & molds). Examined daily

Note: Contact plates are used for monitoring the microbiological contamination of surface and air inside cleanrooms, isolators, RABS, food industries and hospitals. The double/triple irradiated wrapping ensures that the package itself doesn't contaminate the environment as the first wrapper is removed just before entering the clean area.

### Quality control

Physical/Chemical control	Microbiological control	Sterility control
Color: Straw-coloured yellow. pH: 7.3 ± 0.2 at 25°C	Growth Promotion Test according to harmonized pharmacopoeial monographs and test methods & ISO 11133:2014  Inoculate: 50-100* CFU (Productivity) according to harmonized Eur. Pharmacopoeia.  Aerobiosis. Incubation at 30-35 °C. Read after 18-24h to 72h for bacteria and 3-5 days for fungi.	Incubation 48 hours at 30-35°C and 48 hours at 20-25°C: NO GROWTH  Check at 7 days after incubation in same conditions.

Microorganism	Growth
<i>Escherichia coli</i> ATCC® 8739, WDCM 00012	Good (≥70 %)
<i>Staphylococcus aureus</i> ATCC® 6538, WDCM 00032	Good (≥70 %)
<i>Bacillus subtilis</i> ATCC® 6633, WDCM 00003	Good (≥70 %)
<i>Candida albicans</i> ATCC® 10231, WDCM 00054	Good (≥70 %)
<i>Ps. aeruginosa</i> ATCC® 9027, WDCM 00026	Good (≥70 %)
<i>Aspergillus brasiliensis</i> ATCC® 16404, WDCM 00053	Good (≥70 %)
<i>Salmonella typhimurium</i> ATCC® 14028, WDCM 00031	Good (≥70 %)
<i>L. monocytogenes</i> ATCC® 13932, WDCM 00021	Good (≥70 %)
<i>Bacillus cereus</i> ATCC® 11778, WDCM 00001	Good (≥70 %)

JM180907