**Medio de cultivo sólido y selectivo para la prospección de estafilococos en muestras diversas según farmacopeas, normas ISO y DIN.**

### Specification

**Medio de cultivo sólido y selectivo para la prospección de estafilococos en muestras diversas según farmacopeas, normas ISO y DIN.**

<table>
<thead>
<tr>
<th>Packaging Details</th>
<th>Shelf Life</th>
<th>Storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 box with 10 bottles 250 ml. Injectable cap: Plastic screw inner cap. The use of syringes needles with a diameter greater than 0.8 mm is not recommended</td>
<td>12 months</td>
<td>8-25 ºC</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Composition (g/l):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casein Peptone................. 10.0</td>
</tr>
<tr>
<td>Sodium pyruvate............... 10.0</td>
</tr>
<tr>
<td>Glycine.......................... 12.0</td>
</tr>
<tr>
<td>Meat extract.................... 5.00</td>
</tr>
<tr>
<td>Lithium chloride............... 5.00</td>
</tr>
<tr>
<td>Yeast extract................... 1.00</td>
</tr>
<tr>
<td>Agar ................................ 20.0</td>
</tr>
</tbody>
</table>

### Description /Technique

Collect, dilute and prepare samples and volumes as required according to specifications, directives, official standard regulations and/or expected results.

Melt the medium contained in the bottles in a water bath (100 ºC) or in a microwave oven, avoiding overhating, before pouring into Petri dishes when cooled to room temperature after having added a a sterile reconstituted RPF supplement vial (1 vial / 90 ml Medium Base).

( Do not use this base with Egg Yolk Tellurite supplement)

Once solidified on a flat surface, Spread the plates by streaking methodology or by spiral method.

Incubate the plates right side up aerobically at 37±1ºC for 24-48h.

After incubation, enumerate all the colonies that have appeared onto the surface of the agar. *S. aureus* form brilliant black colonies (tellurite reduction) always surrounded by a halo of fibrin.

Each laboratory must evaluate the results according to their specifications. Presumptive isolation of *S.aureus* must be confirmed by further microbiological and biochemical tests.

Calculate total microbial count per ml of sample by multiplying the average number of colonies per plate by the inverse dilution factor if streaked a diluted sample. Report results as Colony Forming Unit (CFU's) per ml or g along with incubation time and temperature.

### Quality control

**Physical/Chemical control**

Color : yellow  

pH: 7.2 ± 0.2 at 25ºC

**Microbiological control**

Before addition of 1 reconstituted vial of RPF supplement for each 90ml.

Inoculate: Practical range 100 ± 20 CFU. min. 50 CFU (productivity)/ 10⁴-10⁶ (selectivity).

Aerobiosis. Incubation at 37 ºC ± 1, reading after 24-48 ± 2h


**Microorganism**

*Staph. aureus* ATCC® 25923, WDCM 00034  
*Staph. saprophyticus* ATCC® 15305, WDCM 00159  
*Staph. epidermidis* ATCC® 12228, WDCM 00036  
*Escherichia coli* ATCC® 8739, WDCM 00012

**Growth**

Good ≥ 50%. Black/grey colonies with opacity halo  
Black/grey colonies without opacity halo

**Sterility control**

Incubation 48 hours at 30-35 ºC and 48 hours at 20-25 ºC: NO GROWTH.

Check at 7 days after incubation in same conditions.
Bibliography