RESULT RELIABILITY

The detection of antimicrobial substances in a sample for bacterial culture is important for correct result interpretation. In the absence of clinical data the Residual Antimicrobial Activity (RAA) test result is of value to the microbiologist in the interpretation of the culture test, especially in case of not reported antibiotic therapies, and helps to avoid the reporting of false negative results.

Example of BACTERIA CULTURE + RAA TEST

Simultaneously with bacterial culture the native sample is inoculated into a vial containing a Staphylococcus epidermidis suspension which is sensitive to most of the commonly used antibiotics.

The Alifax RAA test is also useful to monitor the effectiveness of therapy and verify if the antibiotic has reached the infection site.

RAA test results are simultaneously displayed with bacterial growth results in Urine and Human Biological Liquid cultures.
RAA TEST: DIFFERENTIAL KINETIC GROWTH EVALUATION

The systems allow the determination of Residual Antibiotic Activity in the sample by comparing the Staphylococcus epidermidis with the bacterial culture growth curves.

**PRESENCE OF ANTIBIOTICS**

Staphylococcus epidermidis does not grow

**ABSENCE OF ANTIBIOTICS**

Staphylococcus epidermidis grows

### RESULTS INTERPRETATION

<table>
<thead>
<tr>
<th></th>
<th>RAA- Culture-</th>
<th>RAA- Culture+</th>
<th>RAA+ Culture-</th>
<th>RAA+ Culture+</th>
</tr>
</thead>
<tbody>
<tr>
<td>Culture test result is confirmed</td>
<td>Culture test result is confirmed</td>
<td>Residual antimicrobial activity detected</td>
<td>Further investigations are required</td>
<td>Residual antimicrobial activity detected</td>
</tr>
<tr>
<td>Therapy is not working or not reaching the site</td>
<td>Further investigations are required</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### URO-QUICK R.A.A. KIT Code SI 390.901
- **R.A.A. CULTURE VIALS PACK:**
  - 360 Red cap disposable glass vials with eugonic broth
  - 15 Blotting papers strips
- **R.A.A. BACTERIAL REAGENT PACK:**
  - 3 Vials with Lyophilized Microorganism
  - 3 Vials of Reconstituting solution
  - 15 Vials of Diluting solution
  - 45 Disposable special pipette tips
  - 1 MicCARD

#### SHELF LIFE
- From production: Up to 14 months.
- From reconstitution: 30 days at -20°C

#### STORAGE CONDITIONS
- Before reconstitution: +2÷8°C
- After reconstitution: -20°C

#### RAA BACTERIAL PACK Code SI 190.902
- **ACCESSORY KIT FOR RAA TEST TO BE USED IN ASSOCIATION WITH AUTOMATION KIT Code SI 1201.900**
  - 1 Vial with Lyophilized Microorganism
  - 1 Vial of Reconstituting solution
  - 5 Vials of Diluting solution

#### SHELF LIFE
- From production: 14 months +2÷8°C
- From reconstitution: 30 days at -20°C

#### STORAGE CONDITIONS
- Before reconstitution: +2÷8°C
- After reconstitution: -20°C

#### HB&LTM R.A.A. KIT Code SI 605.901
- **R.A.A. HB&LTM CULTURE VIALS PACK:**
  - 120 Violet cap disposable glass vials with culture broth for biological liquids
  - 10 Blotting papers strips
- **R.A.A. BACTERIAL REAGENT PACK:**
  - 1 Vial with Lyophilized Microorganism
  - 1 Vial of Reconstituting solution
  - 5 Vials of Diluting solution
  - 15 Disposable special pipette tips

#### SHELF LIFE
- From production: 14 months +2÷8°C
- From reconstitution: 30 days at -20°C

### Related kits
- URO-QUICK SCREENING KIT Code SI 390.900
- AUTOMATION KIT Code SI 1201.900
- HB&LTM CULTURE KIT Code SI 405.901
- HB&LTM DEB KIT Code SI 705.901

Bibliography
2. Ronca A. et al. (Mic. Dep. Pietra Ligure Hospital, Savona, Italy) Evaluation of HB&L system for the culture of surgical samples of osteoarticular origin. 28th AMCLI congress, Rimini, Italy, 2009

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Entered in Padova companies register at the n. 04337640280. Company stock E 10.000.000 entirely deposited Company with single partner