*MM0342*

# Acetamide Broth

**Use and description:**
Acetamid broth constitutes one of the confirmation media used in water analysis for the detection and enumeration of Pseudomonas aeruginosa. It is also useful to examine the presence of Pseudomonas aeruginosa in potable water and in swimming pools as well.

Magnesium sulphate , sodium molybdate and iron sulphate allow the selective growth of Pseudomonas in the medium.Monopotassium phosphate provides phosphate. Sodium Chloride needs to adjust the proper osmotic pressure – production of ammonia from acetamide is the key for detection by Nessler's reagent

**Composition per liter g/l :**

| | |
|---|---|
| Acetamide | 2.00 |
| Sodium Chloride | 0.20 |
| MgSo4 | 0.2 |
| Monopotassium phosphate | 1.0 |
| Sodium Molybdate | 5.0 mg |
| Iron Sulphate | 0.5 mg |

**Final pH of the ready to use medium**: 7.0±0.2 at 25.0 °C

**Medium preparation:**
Add 2 drops of Nessler reagent and examine the tubes for ammonia production

**Quality specifications:**
1. The powder is homogeneous, free flowing and beige
2. Ready to use medium: light to medium amber slightly opalescent
3.

**Microbiological response after 48-72 hours at 35°C:**

| Organism | inoculum | Recovery w 15% blood |
|---|---|---|
| Pseudomonas aeruginosa | | positive |
| Bordetella parapertussis ATCC15311 | 3-300 | Good |
| Bordetella pertussis ATCC8467 | 3-300 | Good |

**Storage:**
Store the sealed bottle containing the dehydrated medium at 25 to 30.0 °C. Once opened and recapped, place the container in a low humidity environment at the same storage temperature. Protect it from moisture and light. The dehydrated medium should be discarded if it is not free flowing or if the color has changed from the original light beige color.