

TECHNICAL SHEET

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| B1303 | SEMISOLID RAPPAPORT VASSILIADIS MEDIUM, MODIFIED | |
| Formula | | |
| Ingredients : | gms/lit. | |
| Tryptose | 4.59 | |
| Tryptone | 4.59 | |
| Sodium chloride | 7.34 | |
| Potassium dihydrogen phosphate | 1.47 | |
| Magnesium chloride, anhydrous | 10.93 | |
| Malachite green oxalate | 0.037 | |
| Agar | 2.70 | |
| Final pH (at 25°C) : 5.2 ± 0.2 | | |
| Directions : | | |
| Suspend 31.66 grams in 1000 ml purified / distilled water. Heat to boiling with frequent agitation to dissolve the medium completely. DO NOT AUTOCLAVE. Cool to 45-50°C and aseptically add the rehydrated contents of 1 vial of Novobiocin Selective Supplement (BF163) or 4 vials of Novobiocin supplement (BF083). Mix well and pour into sterile Petri plates. Air dry the plated medium at room temperature for at least one hour. | | |
| Principle : | | |
| Tryptose, tryptone provide the nitrogenous and carbonaceous substances and other essential growth nutrients. Phosphate gives good buffering capacity to the medium. Malachite green oxalate and Novobiocin inhibits many gram-positive bacteria. | | |
| QC Tests - (I) Dehydrated Medium | | |
| Colour : | Light yellow to light blue | |
| Appearance : | Homogeneous Free Flowing powder | |
| (II) Rehydrated medium | | |
| pH (post autoclaving/heating) : | 5.2 ± 0.2 | |
| Colour (post autoclaving/heating) : | Greenish blue | |
| Clarity (post autoclaving/heating) : | Semisolid, | |
| (III) Q.C. Test Microbiological | | |
| Cultural characteristics observed after an incubation at 42-43°C for 18-24 hours with added Novobiocin Selective Supplement (BF163) or Novobiocin supplement (BF083). | | |
| MICROORGANISM (ATCC) | GROWTH AT 42±1°C | MOTILITY |
| Citrobacter freundii (8090) | None - poor | Negative reaction, no colour change |
| Salmonella enteritidis (13076) | Good-luxuriant | Positive reaction, colourless to light pink zone |
| Salmonella typhi (6539) | Good-luxuriant | Positive reaction, colourless to light pink zone |
| Salmonella typhimurium (14028) | Good-luxuriant | Positive reaction, colourless to light pink zone |
| Escherichia coli (25922) | None - poor | Negative reaction, no colour change |
| Precautions : | <ol style="list-style-type: none"> 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. 3. IRRITANT. Irritating to eyes, respiratory system and skin. Avoid contact with skin and eyes. Do not breathe dust. Wear suitable protective clothing. Keep container tightly closed. Target organ(s) : Nerves, Kidneys. | |
| Limitations : | <ol style="list-style-type: none"> 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. 2. The plates should be incubated in upright and steady position as medium contains less agar. 3. Air dried plate should be used, or it may give erroneous results. | |

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| Use : | Recommended for the detection of motile Salmonella species from food, faeces and environmental specimens. | | | | |
| Storage : | Dehydrated medium- below 30°C Prepared medium- Between 2 to 8°C. | | | | |
| Packing : | 500 gm. bottle | | | | |
| Product profile: | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
| B1303 | 31.66 g/l | 15.792 L | 5.2 ± 0.2 | Novobiocin Selective Supplement (BF163) or Novobiocin supplement (BF083). | DO NOT AUTOCLAVE |