

TECHNICAL SHEET

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| DP005 | Dual Performance Salmonella Selective Medium- SS (for Adult use) | | |
| Formula | | | |
| Ingredients: | gms/lit | | |
| Peptic digest of animal tissue | 5.00 | | |
| Meat Extract B# | 5.00 | | |
| Lactose | 10.00 | | |
| Bile salt mixture | 8.50 | | |
| Sodium citrate | 10.00 | | |
| Sodium thiosulphate | 8.50 | | |
| Ferric citrate | 1.00 | | |
| Brilliant green | 0.00033 | | |
| Neutral red | 0.025 | | |
| Agar | 15.00 | | |
| #- Equivalent to Beef extract | | | |
| Solid Phase | 20ml | | |
| Liquid Phase | 40ml | | |
| Final pH (at 25°C): 7.0 ± 0.2 | | | |
| Directions: | | | |
| Recommended volume of blood to be tested in (DP005)-8-10ml | | | |
| Label the ready to use Dual performance medium bottle. Remove the top seal of the cap. Disinfect the part of the rubber stopper which is now exposed. Transfer the sample immediately into the culture bottle by puncturing the rubber stopper with the needle. Venting: Use sterile venting needle. Keep the bottle in an upright position preferably in a biological safety cabinet, place an alcohol swab over the rubber stopper and insert the venting needle with filter through it. Insertion and withdrawal of the needle should be done in a straight line. Discard the needle and mix the contents by gently inverting the bottle 2-3 times. Do not vent the bottle for anaerobic cultures. Incubate at 35-37°C for 18-24 hours. | | | |
| Principle: | | | |
| The high selectivity of Salmonella Shigella Agar allows the use of large inocula directly from faeces, rectal swabs or other materials suspected of containing pathogenic enteric bacilli. On fermentation of lactose by few lactose-fermenting normal intestinal flora, acid is produced which is indicated by change of color from yellow to red by the pH indicator-neutral red. Thus, these organisms grow as red pigmented colonies Lactose non-fermenting organisms grow as translucent colorless colonies with or without black centers. Growth of Salmonella species appears as colorless colonies with black centers resulting from H ₂ S production. Shigella species also grow as colorless colonies which do not produce H ₂ S. | | | |
| (I) QC Tests | | | |
| pH: | 7.0 ± 0.2 | | |
| Color: | Colour of agar medium- Reddish orange coloured medium Colour of liquid medium- Red coloured medium | | |
| Appearance: | Combination of solid and liquid media in single bottle. | | |
| (II) Sterility test | Passes release criteria | | |
| (III) Q.C. Test Microbiological | | | |
| Cultural characteristics observed after incubation at 35-37°C for 18-24 hours. | | | |
| MICROORGANISM (ATCC) | GROWTH ON AGAR MEDIUM | GROWTH IN LIQUID MEDIUM | COLOR OF COLONY |
| Escherichia coli 25922 | Poor-good | Fair-good | - |
| S. Typhimurium 14028 | luxuriant | luxuriant | Colorless colonies with black center(H ₂ S production) |

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| # Klebsiella aerogenes 13048 (00175*) | Poor-good | Fair-good | - |
| S. Enteritidis 13076 | luxuriant | luxuriant | Colorless colonies with black center(H ₂ S production) |
| Salmonella Typhi 6539 | luxuriant | luxuriant | Colorless colonies with black center(H ₂ S production) |
| Shigella flexneri 12022 | luxuriant | luxuriant | Colorless |
| Enterococcus faecalis 29212 (00087*) | luxuriant | luxuriant | Colorless |
| Salmonella Choleraesuis 12011 | luxuriant | luxuriant | Colorless colonies with black center(H ₂ S production) |
| Proteus mirabilis 25933 | luxuriant | luxuriant | colorless, may have black centre |

Refer disclaimer Overleaf

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| Precautions : | 1. In Vitro diagnostic use only. 2. Read the label before opening the container |
| Limitations : | 1. Since the nutritional requirements of organisms vary, some strains may be encountered that fail to grow or grow poorly on this medium. |
| Use: | Recommended as a qualitative test for rapid growth and confirmation of Salmonella. |
| Storage: | Store between 2-8°C. Use before expiry date on the label. |
| Packing: | 7ml of agar medium and 20ml of broth medium in 10 glass bottles |

Disclaimer:

User must ensure suitability of the product(s) in their application prior to use. Products conform solely to the information contained in this and other related BIOMARKLABORATORIES publications. The information contained in this publication is based on our in-house studies and market performance and is to the best of our knowledge true and accurate. BIOMARK LABORATORIES reserves the right to make changes to specifications and information related to the products at any time. Products are not intended for human or animal or therapeutic use but for laboratory, diagnostic, research or further manufacturing use only, unless otherwise specified. Statements contained herein should not be considered as a warranty of any kind, expressed or implied, and no liability is accepted for infringement of any patents.