

TECHNICAL SHEET

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|--|---|---|--------------------------------|-----------|----------------|---------------|
| B043 | THIOGLYCOLLATE MEDIUM W/ HEMIN & VITAMIN K | | | | | |
| Formula | | | | | | |
| Ingredients: | | gms/lit. | | | | |
| Tryptose | | 15.00 | | | | |
| Yeast extract | | 10.00 | | | | |
| Sodium thioglycollate | | 0.50 | | | | |
| Sodium chloride | | 2.50 | | | | |
| L-cysteine hydrochloride | | 0.50 | | | | |
| Sodium bicarbonate | | 0.40 | | | | |
| Resazurin | | 0.001 | | | | |
| Hemin | | 0.005 | | | | |
| Vitamin K | | 0.0005 | | | | |
| Agar | | 0.75 | | | | |
| Final pH (at 25°C) : 7.2 ± 0.2 | | | | | | |
| Directions : | | | | | | |
| Suspend 29.7 gms.in 1000ml. distilled water. Boil to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. | | | | | | |
| Principle : | | | | | | |
| Tryptose and yeast extract provide nitrogenous compounds, vitamin B complex and other essential growth nutrients for bacterial metabolism. Sodium thioglycollate and L-cysteine act as reducing agents and maintain a low oxygen tension in the medium. Vitamin K is a growth requirement for some strains of <i>Bacteroides melaninogenicus</i> . Pink ring at the top (oxidized medium) is due to resazurin indicator. Hemin is the source of the X factor which stimulates the growth of many microorganisms. | | | | | | |
| QC Tests - (I)Dehydrated Medium | | | | | | |
| Colour : | | Yellow | | | | |
| Appearance : | | Homogeneous Free Flowing powder | | | | |
| (II)Rehydrated medium | | | | | | |
| pH (post autoclaving/heating) : | | 7.2 ± 0.2 | | | | |
| Colour (post autoclaving/heating) : | | Amber | | | | |
| Clarity (post autoclaving/heating) : | | Clear to very slightly opalescent | | | | |
| (III)Q.C. Test Microbiological | | | | | | |
| Cultural characteristics observed after 18 - 48 hrs at 35 - 37°C. | | | | | | |
| MICROORGANISM (ATCC) | | GROWTH | | | | |
| Bacteroides melaninogenicus (15930) | | Luxuriant | | | | |
| Bacteroides levii (9177) | | Luxuriant | | | | |
| Clostridium perfringens (12924) | | Luxuriant | | | | |
| Clostridium sporogenes (11437) | | Luxuriant | | | | |
| Streptococcus pyogenes (19615) | | Luxuriant | | | | |
| Bacteroides vulgatus (8482) | | Fair | | | | |
| Precautions : | | 1. For Laboratory Use. 2. Follow proper, established laboratory procedures in handling and disposing of infectious materials. | | | | |
| 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 : | | For routine cultivation of fastidious anaerobic microorganisms. Also used for blood culturing and studying fermentation reactions. | | | | |
| Storage : | | Dehydrated medium and prepared medium- Between 2 to 8°C. | | | | |
| Packing : | | 500 gm. bottle | | | | |
| Product profile: | | Reconstitution | Quantity on Preparation (500g) | pH (25°C) | Supplement | Sterilization |
| B043 | 29.7g/l | 16.835L | 7.2 ± 0.2 | NIL | 121°C /15 min. | |

Refer disclaimer Overleaf

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.

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