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| **B1333** | | | **HALF FRASER BROTH BASE** | | | | | | | | |
| **Formula** | | | | | | |  | | | | |
| **Ingredients:** | | | | | | | **gms/lit.** | | | | |
| Peptone 5.00  Tryptone 5.00  Yeast extract 5.00  Meat Extract B# 5.00  Sodium chloride 20.00  Disodium hydrogen phosphate 9.60  Potassium Dihydrogen phosphate 1.35  Aesculin 1.00  Lithium Chloride 3.00  Nalidixic acid 0.010  Acriflavin hydrochloride 0.0125  #- Equivalent to Beef extract | | | | | | | | | | | |
| Final pH (at 25°C) : 7.2+ 0.2 | | | | | | | | | | | |
| **Directions :** | | | | | | | | | | | |
| Suspend 54.97 grams in 1000 ml distilled water. Heat if necessary, to dissolve the medium completely. Sterilize by autoclaving at 15 lbs pressure (121°C) for 15 minutes. Cool to 45-50°C and aseptically add rehydrated contents of 2 vials of Fraser Supplement (BF002). Mix well and dispense as desired. | | | | | | | | | | | |
| **Principle :** | | | | | | | | | | | |
| This medium contains peptone, tryptone, yeast extract and Meat Extract B which provide essential nutrients like carbon and nitrogenous compounds including vitamins, amino acids and trace ingredients. Phosphates provide buffering action to the medium while sodium chloride maintains osmotic equilibrium. Nalidixic acid and acriflavine inhibits the growth of gram – negative and gram – positive organisms respectively except Listeria species. | | | | | | | | | | | |
| **QC Tests – (I)Dehydrated Medium** | | | | | |  | | | | | |
|  | Colour : | | | | | Cream to light yellow | | | | | |
|  | Appearance : | | | | | Homogeneous Free Flowing powder | | | | | |
| **(II)Rehydrated medium** | | | | | |  | | | | | |
|  | pH (post autoclaving/heating) : | | | | | 7.2 ± 0.2 | | | | | |
|  | Colour (post autoclaving/heating) : | | | | | Yellow coloured solution | | | | | |
|  | Clarity (post autoclaving/heating) : | | | | | Slight opalescent with slight precipitate | | | | | |
| **(III) Q.C. Test Microbiological** | | | | | |  | | | | | |
|  | Cultural characteristics observed on addition of BF002 after an incubation at 35 - 37°C for 24-48 hours. | | | | | | | | | | |
|  | MICROORGANISM (ATCC ) | | | | GROWTH | | | | ESCULIN HYDROLYSIS\* | | |
|  | Listeria monocytogenes (19111) | | | | good-luxuriant | | | | positive reaction, blackening of medium | | |
|  | Listeria monocytogenes (19112) | | | | good-luxuriant | | | | positive reaction, blackening of medium | | |
|  | Listeria monocytogenes (19117) | | | | good-luxuriant | | | | positive reaction, blackening of medium | | |
|  | Listeria monocytogenes (19118) | | | | good-luxuriant | | | | positive reaction, blackening of medium | | |
|  | Staphylococcus aureus (25923) | | | | none-poor | | | | - | | |
|  | Escherichia coli (25922) | | | | Inhibited | | | | - | | |
|  | Enterococcus faecalis (29212) | | | | none-poor | | | | - | | |
|  | Key:\* = subculture on Listeria selective agar | | | | | | | |  | | |
| **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 selective enrichment of Listeria species as perISO11290-1:1997 & ISO11133-2:2003 | | | | | | | | | |
| **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 |
| **B1333** | | 54.8 g/l | | 9.095 lit | | | | 7.2 ± 0.2 | | Fraser supplement  (BF002) | 1210C/15 min |

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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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