**SS Agar**

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| **Product No.** | **Product Category** | **Specification** |
| HCM110 | Dehydrated Culture Medium | 500g/bottle |

**Intended Use**

For the isolation of *Salmonella* and some *Shigella* species from clinical specimens, foods etc..

**Principle and Interpretation**

Peptone, beef extract powder provides carbon, nitrogen, vitamins and minerals; lactose into fermentable sugars; ox bile salt, sodium citrate and brilliant green against Gram-positive bacteria and most of coliforms and Proteus, but it does not affect the growth of salmonella; neutral red as pH indicator, agar as medium coagulant.

**Formulation**

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| **Ingredients** | **/liter** |
| Beef extract  | 5.0g |
| Peptone | 5.0g |
| Bile salts | 8.5g |
| Agar | 13.5g |
| Lactose | 10.0g |
| Sodium citrate | 8.5g |
| Sodium thiosulfate | 8.5g |
| Ferric citrate | 1.0g |
| Neutral green | 0.025g |
| Brilliant green | 0.00033g |
| pH 7.0±0.2 at 25°C |

**Preparation**

Suspend 60g in 1 L of distilled water , stirring heated to boiling until completely dissolved, then cool to about 50℃ and distribute into petri dishes. Diluted and treated samples.

**Quality Control**

Reactions after incubation at 36±1°C for 24hours , Medium is challenged with 10-100 colony forming units

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| **Quality control strains** | **Growth** |
| *Salmonella typhimurium ATCC14028* |  PR≥0.5 ,colorless translucent colony with black heart |
| *Shigella flexneri* CMCC (B) 51572 | PR≥0.5, colorless to light red colony, semi transparent |

**Sorage and Shelf Life**

Keep container tightly closed, store in a cool, dry place, away from bright light. Storage period of 3 years.

**Precautions**

1. When weighing the dehydrated medium, please wear masks to avoid causing respiratory system discomfort

2. Keep container tightly closed after using to prevent clumping.

**Waste Disposal**

Microbiological contamination was disposed by autoclaving at 121°C for 30 minutes.

**Revision**

On June 14, 2024

**References**

Rose, H. M., and M. H. Kolodny. 1942. The use of SS (Shigella-Salmonella) Agar for the isolation of Flexner Dysentery bacilli from the feces. J. Lab. Clin. Med. 27:1081-1083.

Isenberg, H. D. (ed.). 1992. Interpretation of aerobic bacterial growth on primary culture media, Clinical microbiology procedures handbook, vol. 1 p. 1.61-1.67. American Society for Microbiology, Washington, D.C.

Vanderzant, C., and D. F. Splittstoesser (eds.). 2015. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.