

# MEBEP TECH(HK) Co., Limited

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# Triple sugar iron Agar(TSIA)

**Product Number: TSI-250g** 

#### **Product details**

Formula of culture medium (per liter); pH7.3  $\pm$  0.1(25°C)

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Component	Weight
Peptone	20.0g
Beef Extract	5.0g
Sodium Chloride	5.0g
Lactose	10.0g
Sucrose	10.0g
Dextrose	1.0g
Ferrous Sulfate	0.2g
Sodium Thiosulfate	0.2g
Phenol Red	0.025g
Agar	12.0g

### **Instructions**

Weigh 63.4g of this product into 1L of distilled or deionized water, heat and boil until completely dissolved, divide into test tubes, sterilize at 121°C for 15 minutes under high pressure or at 115°C for 30 minutes. After sterilization, shake well and make a high-level inclined surface for later use.

### Quality control example

1. Physical and chemical testing

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Inspection items	Inspection standards	Inspection results
Powder appearance	Orange red powder, uniform and free of impurities	Orange red powder, uniform and free of impurities
Solution or colloid	Orange red, transparent and free of impurities	Orange red, transparent and free of impurities
Gel strength	$550 \sim 750 \text{g/cm}^2$	650g/cm <sup>2</sup>
pH(25°C)	7.3±0.1	7.26
Moisture content	≤5%	3.5%

2. Sensitivity test (Prepare a high-level agar slant and incubate at 30-35°C for 18-24h)

Quality control strains	Growth	Conclusion
Salmonella paratyphoid type B	H2S production, gas production, and large-scale acid	Pass
CMCC(B)50094	production throughout the pipeline	
Shigella flexneri	H2S negative, lactose and sucrose negative, using glucose	Pass
ATCC 12022	to produce acid but not gas	
Escherichia Coli	H2S negative, gas production, and significant acid	Pass
CMCC(B)44102	production throughout the entire pipeline	
Proteus mirabilis	H2S negative, lactose and sucrose negative, using glucose	Pass
ATCC 12453	to produce acid but not gas	

Conclusion: The physical and chemical properties as well as sensitivity of the product are qualified, and the product is qualified.