

G.S.S. Broth

Medium used for the maintenance and cultivation of *Actinomyces*.

• CONTENTS (Liter)

Soluble Starch	10.0 g
Glucose	20.0 g
Soy Peptone	25.0 g
Beef Extract	1.0 g
Yeast Extract	4.0 g
Sodium Chloride	2.0 g
Calcium Carbonate	2.0 g
Final pH = 7.2 ± 0.2 at 25°C.	

• PROCEDURE

Suspend 64.0 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 121°C for 15 minutes. Cool to 45-50°C in water bath. Mix well. Dispense in tubes. If necessary, dispense the medium before autoclave.

• INTERPRETATION

G.S.S Broth is a medium used for the maintenance and cultivation of *Actinomyces*. Soy peptone, soluble starch, beef extract and yeast extract are sources of carbon, nitrogen, vitamin and essential nutrients. Glucose is the carbohydrate and energy source. Sodium chloride maintains the osmotic balance. Calcium carbonate neutralizes toxic metabolic by-products.

• TECHNIC

Inoculate the specimen with stab using a sterile needle to the medium. Shake gently for spreading microorganism. Incubate at 28 ± 1°C for 40 - 72 hours up to 7 days. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous.

Color: beige.

Prepared medium

Appearance: supernatant over a heavy white precipitate.

Color: amber.

Incubation conditions: 28 ± 1 °C / 40 - 72 hours up to 7 days

Microorganism	ATCC	Inoculum CFU	Growth
<i>Streptomyces albus</i>	3004	50-100	good

• STORE

The powder is very hygroscopic. Store the powder at room temperature, in a dry environment, in its original container tightly closed and use it before the expiry date on the label or until signs of deterioration or contamination are evident. Store prepared medium at 2-8°C.

• REFERENCES

1. Brown, McNeil and Desmond. 1999. In Murray, Baron, Pfaller, Tenover and Tenover (ed.), Manual of clinical microbiology, 7th ed. American Society for Microbiology, Washington, D.C.
2. Pine and Watson. 1959. J. Lab. Clin. Med. 54:107.

• PACKAGE

Cat. No : MB-G0666 G.S.S Broth	500 G
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