

SALMONELLA-SHIGELLA BROTH (SS BROTH)

Broth version of medium SS Agar UNE-EN ISO 6579:2003
 Salmonella-Shigella selective enrichment with maximum recovery.

COMPOSITION

Meat peptone	5,00 g
Meat extract	5,00 g
Biles salts	8,50 g
Sodic citrate	10,00 g
Sodic tiosulphate	8,50 g
Citrato Fe-Ammonial	1,00 g
Lactose	10,00 g
Neutral Red	25,00 mg
Brilliant green	0,33 mg

(Formula per liter)
 pH final: 7,0 ± 0,1



.From left to right: SS Broth without inocule, E. Coli, Shigella (cloudy) and salmonella (black),

PREPARATION

Dissolve 48 g in 1 l of bidestiled water
 Boil 1 minute to 100°C. Don't autoclave or, better, to sterilize by filtration.
 Prepared medium has aspect with filaments and lumps.This is normal.

FOR EXCLUSIVE USE IN LABORATORY.
KEEP BOOTLE CLOSED IN A DRY, FRESH AND DARK PLACE.
SHAKE BOTTLE BEFORE USING IT.

PRECAUTION: CONTAIN BILES SALTS

DEHIDRATED CODE: [DMT067](#)

QUALITY CONTROL OF MEDIUM

Elaborated in our laboratory; it is prudent repeat in your laboratory always conditions change (more than three months without use), after keep to high temperatures, when it takes bizard aspect although expire date is correct,...)

DEHIDRATED: Thick powder, pink.

PREPARED: Sterile, intense red with precipitate with filaments which IS NOT contamination.

GROWING CONTROL 24-48 h to 42°C more or less:

Salmonella abony MKTN 6017: Correct, yellowish and turn black the medium.

Escherichia coli MKTA 25922: Inhibited, It can grow in 48 h.

Pseudomonas aeruginosa MKTA 9027, Inhibited.

Proteus mirabilis MKTA 14153, Good.

Shigella flexneri MKTA 12022, Good.

Enterococcus faecalis MKTA 29212, scarce.

PRESENTATION: DEHIDRATED MEDIUM, PREPARED TUBES, PREPARED BOTTLES, KITS P/A

NOTE: Perfect medium to *Salmonella*- *Shigella* selective enrichment; it has advantage it is not toxic as Selenito-Cystina Broth; and it allow growing *Shigella* as not Rappaport Vassiliadis. Almost all flora Gram positive is inhibited (except some cepas of *Bacillus cereus*, *Enterococcus durans* and *Staphilococcus epidermis*); and a lot of Gram negative flora is inhibited (except some cepas of *E. Coli*, *Pseudomona aeruginosa* and group KES- *Klebsiella*, *Enterobacter* and *Serratia*-). All this cepas are ruled out in selective Agar XLD and SS (you can replace the last one for Chromosalm if you are looking for just *Salmonella*) and with inmunologic test (KMB501) and biochemical.

In the intercomparative services SEILALIMENTOS of the last 7 years, this medium demonstrate it is the best recovering differents cepa of *Salmonella*-*Shigella* in all kind of matrix (milky, meat, fish, vegetables,...)

SPREADING: Shake for rehangng clouds, precipitates and phloculs. Inoculate 0.1 ml of pre-enrichment broth (Buffered peptone Water⁹ in a tube of 9 ml or 1 ml in a bottle of 100 ml. Incubate 48 h to 42°C more or less.

INTERPRETATION: Elaborated to solid selective medium XLD Agar and SS-Agar (Replace this one for Chromosalm if you are looking just for *Salmonella*) and, spreading in surfaces by exhaustion, any cloudy broth or turning colour. Mediums with crystal clear precipitated are normal and it show growth..

Final user is the only responsible of destruction of grown microrganism according the current environmental legislation. Autoclave before throw to the rubbish

Last revision made on May 2010