

Orange Serum Broth



Medium used for the cultivation and enumeration of aciduric microorganisms, Lactobacilli, other aciduric organisms and pathogenic fungi, associated with spoilage of citrus products.

• CONTENTS (Liter)

Orange Serum	10.0 g
Yeast Extract	3.0 g
Pancreatic Digest of Casein	10.0 g
Dextrose	4.0 g
Dipotassium Phosphate	2.5 g
Final pH = 5.5 ± 0.2 at 25°C	

• PROCEDURE

Suspend 29.5 G of powder in 1 L of distilled or deionized water. Heat to boiling until completely dissolved. Sterilize by autoclave at 115°C for 15 minutes. Cool to 45 - 50°C in water bath. Mix well. Pour into tubes.

• INTERPRETATION

Orange Serum Broth is a medium used for the cultivation and enumeration of aciduric microorganisms, Lactobacilli, other aciduric organisms and pathogenic fungi, associated with spoilage of citrus products. Orange serum provides an optimal environment for the recovery of acid tolerant microorganisms from citrus products. Yeast extract and pancreatic digest of casein provide carbon, nitrogen, vitamins and minerals. Dextrose is the carbohydrate. Dipotassium phosphate is the buffering agent.

• TECHNIC

Inoculate the specimen using a sterile needle to the medium. Incubate at 35 ± 2°C for 40 - 48 hours. Refer appropriate references for recommended test procedure.

• QUALITY CONTROL FOR USE

Dehydrated medium

Appearance: free-flowing, homogeneous

Color: light beige

Prepared medium

Appearance: opalescent with precipitates

Color: light amber

Incubation conditions: 35 ± 2°C / 40 - 48 hours

Microorganism	ATCC	Inoculum CFU	Growth
<i>Lactobacillus bulgaricus</i>	11842	50-100	good
<i>Lactobacillus fermentum</i>	9338	50-100	good
<i>Lactobacillus plantarum</i>	8014	50-100	good
<i>Candida albicans</i>	10231	50-100	good
<i>Saccharomyces cerevisiae</i>	76625	50-100	good
<i>Aspergillus niger</i>	16404	heavy	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. Store prepared medium at 2 - 8°C.

• REFERENCES

1. Vanderzant, C., and D.F. Splittstoesser (ed.). (1992). Compendium of methods for the microbiological examination of foods, 3rd ed. American Public Health Association, Washington, D.C.
2. MacFaddin, J.F. (1985). Media for isolation-cultivation-identification maintenance of medical bacteria, vol. 1. Williams & Wilkins, Baltimore, MD.

• PACKAGE

Cat. No : MB-O1307 Orange Serum Broth	500 G
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