

SampleReady® Culture Media Instructions for Use

LACTOSE BROTH (G173) SampleReady® GAMMA IRRADIATED SOLUBLE POUCH

USE: Lactose Broth is used for the detection and/or verification of the presence of *Salmonella* and coliform organisms in water, foods, and dairy products.

DESCRIPTION: Lactose Broth was formulated in accordance with recommendations of the American Public Health Association (APHA) and the American Water Works Association for testing dairy products and water for the presence of coliform organisms.^{1,2} This medium was, but no longer is, listed as an alternative to Lauryl Sulfate Broth in the presumptive portion of the Standard Total Coliform Multiple-Tube (MPN) Test for water analysis provided that it had been demonstrated not to increase the frequency of false-positives nor mask coliforms.³ It is one of the recommended media in the Compendium of Methods for the Microbiological Examination of Foods for pre-enrichment when Salmonella organisms are suspected in foods.⁴ It is included in the USP for use in the performance of Microbial Limit Tests for Salmonella species and Escherichia coli.⁵

FORMULA:

Beef Extract	3.0 g/L
Casein Peptone	5.0 g/L
Lactose	5.0 g/L
Total	13 g/L

Note: Medium may be adjusted and/or supplemented as required to meet performance criteria.

Final pH: 6.9 ± 0.2 at 25°C

PHYSICAL APPEARANCE:

Dehydrated Appearance – The powder is light beige to light tan, homogenous, and free flowing encapsulated in a clear soluble film pouch.

Prepared Appearance – Light amber, clear to slightly hazy.

PROCEDURE: Carefully open the Mylar bag and aseptically transfer one soluble pouch to a container with sterile water and mix. Use 1L of sterile water per 13g. Dissolve completely with repeated stirring or agitation. Once dissolved, the medium is ready for testing applications. Consult reference methods for complete procedures.

EXPECTED RESULTS: Cultural response after 18-48 hours at 35°C.

Microorganism	CFU	Growth	Acid	Gas
K. aerogenes ATCC™ 13048	10 – 100	+	+	+
E. coli ATCC™ 25922	10 – 100	+	+	+
E. faecalis ATCC™ 19433	10 – 100	+	+	-
Salmonella ser. Typhimurium ATCC™ 14028	10 – 100	+	-	-

STORAGE: Store the sealed Mylar bag at 2-30°C in a dry environment for up to the expiration date.

LIMITATIONS: Once opened, use all pouches within the Mylar bag as soon as possible. Use prepared media within 3 hours for best results. The pouches should be discarded if there has been a change from the original color, or the encapsulated powder is not free flowing.

For laboratory use only.

SIZES AVAILABLE: 14.6g (1.125 L), 44g (3.4 L)

PACKAGING: See individual product information for specific packaging formats. Additional configurations are available upon request.

REFERENCES:

- American Public Health Association. 1946. Standard methods for the examination of water and sewage, 9th ed. APHA, New York, N.Y.
- American Public Health Association. 1948. Standard methods for the examination of dairy products, 9th ed. APHA, New York, N.Y.
- Rand, Greenberg and Taras (ed.). 1976. Standard methods for the examination of water and wastewater, 14th ed. American Public Health Association, Washington, D.C.
- Downes and Ito (ed.). 2001. Compendium of methods for the microbiological examination of foods, 4th ed. American Public Health Association, Washington, D.C.
- United States Pharmacopeial Convention, Inc. 2001. The United States pharmacopeia 25/The national formulary 20 – 2002. United States Pharmacopeial Convention, Inc., Rockville, Md.

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