

Storage:

Store sterile L-Broth Agar at ambient temperature (15-30°C). Powder medium is hygroscopic, therefore minimize exposure to air to prolong shelf life of media.

Shelf**Life:**

In airtight closed container or pouch: 4 years.

Quality Assurance Information**Media****Preparation:**

Reagents are tested and chosen for their ability to promote optimum growth of *E. coli* when combined in L-Broth Agar formulations. Chosen reagents are combined in the accurate proportions according to the formula listed above and thoroughly blended for a uniform distribution. A sample of the blended formulation was used to prepare liquid. The combinations were mixed to dissolve components and then autoclaved at 121°C for 15 minutes. *Note: Autoclaving at hotter temperatures or for longer periods will result in darkening of the sterile medium, (a darker color does not normally affect the growth of cells, only the appearance of the sterile medium).*

Quality**Control****Assay:**

L-Broth Agar liquid solutions were mixed by swirling to evenly disperse all components and visually inspected after autoclaving for complete dissolution of components. The pH of the medium was tested to insure that the proper specification was attained.

Acceptable pH range is 6.6 ± 0.3 at 35°C. Please note that the pH of L-Broth Agar increases as the temperature of the solution decreases. Refer to the chart below:

Temperature and pH Comparison Chart

C	pH
30	6.8
35	6.8
40	6.7
45	6.7
50	6.6

Cell**Growth****Tests:**

A sample of the milled and blended formulation was used to prepare plate medium by adding 3.08g of L-Broth Agar to 100ml of purified water. The combinations were mixed by hand for about 1 minute to dissolve the dextrose and autoclaved at 121°C for 15 minutes. After cooling to 50°C, plates of L-Broth Agar were poured.

L-Broth Agar was visually inspected after autoclaving for complete dissolution of components. Report pH result for L-Broth Agar.

L-Broth Agar was tested by *E.coli* cell growth at 37°C for over 24 hours.

Results of Quality Control Assay:

L-Broth Agar liquid solution was determined to be **clear** and **particulate free**. pH of solution of L-Broth Agar was found to be **6.58 @ 46.0°C**. The cell growth of L-Broth Agar passed the test.

Conclusions:

This lot of L-Broth Agar is released for product sales.

05/16/2016 - John Huang, PhD
QBioGene/MP Biomedicals, LLC
Quality Control Manager

A large, stylized handwritten signature in black ink, appearing to read "J Huang". The signature is written in a cursive, flowing style with a long horizontal tail stroke.

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