

PRODUCT INFORMATION



HLP (Hsu's *Lactobacillus Pediococcus*) Medium

Cat. No. H08-107

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DESCRIPTION

HLP Medium is a selective semi-solid medium that allows for the detection of *Lactobacillus* and *Pediococcus* species, while restricting the growth of culture yeast. The inclusion of agar at 2% makes it a semisolid medium, which offers a means of identifying lactic acid bacteria to the genus level on the basis of colony morphology.

PREPARATION

Mix 7 grams of the medium in 100 mL of purified water until evenly dispersed. Heat with repeated stirring and boil for 2-3 minutes to dissolve completely. Autoclaving is not necessary. Cool medium to approx. 45-50°C in a water bath and transfer aliquots of 17 mL to sterile 16x150mm test tubes, leaving ~ 1 cm (or equivalent to desired sample volume) of headspace. Apply caps and screw tightly. Alternatively, 1.5 to 2.0 grams of agar may be added in addition to the 7 grams of medium in order to produce solid media. If this is the desired application, pour the prepared medium into sterile petri dishes and test according to desired protocol.

DETECTION

Once tubed, introduce a 0.1 – 1.0 mL test sample (or diluted sample) to the cooled, sterile HLP. Avoid a large headspace. Recap the tubes and gently invert twice to uniformly distribute microbial load throughout the tubes. Incubate closed tubes at 28-30°C aerobically for 48 hours. Include an uninoculated tube as a sterility control. Tubes that are negative for growth should be examined daily for 72-96 hours to determine a final count and ensure true absence of microbes. If heavy contamination with acetic acid bacteria is suspected, 2-4 mL of sterile paraffin oil may be used to overlay the surface of the medium after inoculation to provide a strictly anaerobic environment.

QUALITY CONTROL SPECIFICATIONS

1. The powder is homogeneous, free flowing with soft lumps, and yellow beige to yellow tan.
2. Visually the prepared medium is gold to light amber and clear to trace hazy, with none to light precipitate.

STORAGE

Store the sealed bottle containing the dehydrated medium at 2 to 8°C and protected from moisture and light. The dehydrated medium should be discarded if the color has changed from the original color.

Formula* per Liter:

Sodium Acetate Anhydrous	3.0g
Citric Acid.....	1.25g
Cycloheximide	0.01g
D-Pantothenic Acid	1.0g
Tomato Juice Broth.....	19.0g
Yeast Extract	5.0g
Corn Syrup Solids.....	29.2g
Malt Extract.....	5.0g
Sodium Sulfate	4.4g
Mercaptoacetic Acid.....	0.55g
Agar	1.6g

Final pH: TBD

* Grams per liter may be adjusted or formula supplemented to obtain desired performance.