

LOWENSTEIN-JENSEN MEDIUM BASE

A strongly selective medium for the cultivation of *Mycobacterium tuberculosis* and other *Mycobacterium* spp.

Dehydrated media	
Code number:	500 g: LJM20500, 5 kg: LJM25000
Colour:	Greenish
Appearance:	Homogeneous hygroscopic powder
pH before autoclaving (25 °C):	6,9 - 7,3

Direction for Lowenstein-Jensen medium with malachite green + glycerol and pyruvate (additional code 05): Suspend **38 g** in 590 ml of distilled water. Add **12 ml of Glycerol Supplement (GLC80100)** and **8 g sodium pyruvate**. Mix well and heat with frequent agitation until the medium boils well. Sterilise by autoclaving at 121 °C for 15 minutes. Cool to 50 °C and add aseptically **1000 ml of sterile mixed whole egg**. Mix gently until the mixture is homogeneous but exempt from air bubbles. Dispense aseptically into sterile test tubes. Coagulate and inspissate in slanted position at 85 °C for 45 min.

Tubed media	
Lowenstein-Jensen medium w/o MG w/o G w/o P:	110 x 16 mm: LJM40006-01-AO (6 ml, slant)
Lowenstein-Jensen medium + MG w/o G w/o P:	110 x 16 mm: LJM40006-02-AO (6 ml, slant)
Lowenstein-Jensen medium + MG + G w/o P:	110 x 16 mm: LJM40006-03-AO (6 ml, slant)
Lowenstein-Jensen medium + MG w/o G + P:	110 x 16 mm: LJM40006-04-AO (6 ml, slant)
Lowenstein-Jensen medium + MG + G + P:	110 x 16 mm: LJM40006-05-AO (6 ml, slant)
MG = malachite green G = glycerol P = sodium pyruvate	
Colour:	Light green
pH (25 °C):	7,0 - 7,2

Direction: Media in tubes are ready to use.

FORMULA for 1600 ml (LJM40006-05)

Potato starch	30,76 g
L-Asparagine	3,60 g
Sodium pyruvate	8,00 g
Sodium citrate	0,60 g
Magnesium sulphate	0,24 g
Malachite green	0,40 g
Potassium phosphate, monobasic	2,40 g
Glycerol	12 ml
Whole egg	1.000 ml

Note: The typical formula can be adjusted to obtain optimal performance.

Storage conditions: Store the dehydrated media tightly closed in a dry place at room temperature. Store the tubed media protected from light at 2 - 8 °C. Use before the expiry date on the label.

Quality control:

Test strains	Incubation temp: 37 °C	Growth	Incubation time: 3 weeks
<i>Mycobacterium tuberculosis</i> ATCC 25618		Acceptable (in aerobic atmosphere enriched with 5 to 10% carbon dioxide)	

References: Jensen (1932) Zentralbl. Bakteriol. Parastenkd. Infektionskr. Hyg. Abt. I Orig. 125: 222.

In vitro diagnostic – for professional use only!