

Media Containing Agar or Agarose

Make up liquid media according to the appropriate formula given above. Just before autoclaving, add (per liter) one of the following:

Bacto-agar	15 g (for plates)
Bacto-agar	7 g (for top agar)
Agarose (type-1, low EEO)	15 g (for plates)
Agarose	7 g (for top agarose)

When preparing plates, media that contain agar or agarose should be sterilized by autoclaving and allowed to cool to 55°C before thermolabile substances (e.g., antibiotics) are added. Plates can then be poured directly from the flask, allowing about 30–35 ml per 85-mm petri dish. If bubbles are a problem, flame the surface of the medium with a bunsen burner before the agar hardens.

Concentrated Media

Some media (e.g., LB, NZYM, and NZCYM) can be prepared and stored as a 5× concentrate. Medium may then be prepared rapidly by diluting the 5× concentrate with the appropriate volume of sterile water.