

F1 Medium for Cultivation of *E. coli*

Medium recipe taken from Pfeifer, B.; Hu, Z.; Licari, P.; Khosla, C. Process and Metabolic Strategies for Improved Production of Escherichia coli-Derived 6-Deoxyerythronolide B. *Appl. Environ. Microbiol.* **2002**, 68, 3287—3292.

F1 medium

per liter,

KH_2PO_4 3 g

K_2HPO_4 6.62 g

$(\text{NH}_4)_2\text{SO}_4$ 4 g

MgSO_4 150.5 mg

Combine and autoclave (15 min at 121 °C)

Add sterile carbon source to a final concentration of 0.2—0.5%

If desired, the above media can be supplemented with vitamin and trace metal solutions.

per liter of F1 medium add,

1.25 mL of vitamin solution

1.25 mL trace metal solution

Vitamin solution (per liter): 0.42 g riboflavin, 5.4 g pantothenic acid, 6 g niacin, 1.4 g pyridoxine, 0.06 g biotin, and 0.04 g folic acid. Filter sterilize

Trace metal solution (per liter): 27 g $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$, 2 g $\text{ZnCl}_2 \cdot 4\text{H}_2\text{O}$, 2 g $\text{CaCl}_2 \cdot 6\text{H}_2\text{O}$, 2 g $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$, 1.9 g $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$, 0.5 g H_3BO_3 , and 100 mL concentrated HCl.