



Ham's F-12 Nutrient mixture

Description

Ham's F-12 Nutrient Mixture (F-12) was designed for serum-free, single-cell plating of Chinese Hamster Ovary (CHO) cells. F-12 has since been used for serum-free growth of CHO cultures as well as serum-supplemented growth of other mammalian cells, including chondrocytes and rat prostate epithelial cells. Life Technologies offers a variety of F-12 modifications for a range of cell culture applications. Find the right formulation using the **media selector tool**.

This Ham's F-12 is modified as follows:

With

- L-glutamine
- Phenol Red

Using F-12

Compared to other basal media, F-12 contains a wider variety of components, including zinc, putrescine, hypoxanthine, and thymidine. F-12 contains no proteins or growth factors. Therefore, F-12 requires supplementation, commonly with 10% **Fetal Bovine Serum** (FBS). F-12 uses a sodium bicarbonate buffer system (1.176 g/L), and therefore requires a 5–10% CO₂ environment to maintain physiological pH.

Specifications

Form:	Liquid
Volume:	1000 ml
Glutamine:	L-Glutamine
HEPES Buffer:	No HEPES
Product Size:	1,000 mL
Phenol Red Indicator:	Phenol Red
Sodium Pyruvate Additive:	Sodium Pyruvate
Green Features:	Sustainable packaging
Shipping Condition:	Room Temperature

Contents & storage

Storage conditions: 2-8° C. Protect from light
Shipping conditions: Ambient
Shelf life: 12 months from date of manufacture