# Ham's F-12, without L-glutamine

**Cat. No.: PM150811**

**Size: 500mL**

## General Information

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| **Product Form** | Liquid |
| **Concentration** | 1 × |
| **pH** | 7.0-7.6 |
| **D-Glucose** | 1802 mg/L |
| **HEPES** | Negative |
| **L-Glutamine** | Negative |
| **$NaHCO_3$** | 1176 mg/L |
| **Phenol red** | 1.2 mg/L |
| **Storage** | 2-8°C, Shading Light |
| **Shipping** | Room Temperature |
| **Expiration date** | 24 months |

## Background

Ham 's F-12 Nutrient Mixture was designed by Ham in 1969 based on Ham 's F-10 nutrient mixture, which was originally used for serum-free culture of CHO cells. Ham 's F-12 is often used as the basic culture medium for serum free culture. At low serum levels, it is especially suitable for single cell culture and clonal culture. After adding serum, it is also widely used in the culture of cancer cells and primary cells, such as rat hepatocytes, rat prostate epithelial cells, chondrocytes, rat myoblasts, and chicken embryonic cells. In addition, the DMEM/F12 medium obtained by mixing Ham 's F-12 in equal volume with DMEM is more nutritious and widely used.

## Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is sterilized by 0.1 μm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.