

Product Name

Name: DMEM/F12, 1:1 mixture, with L-Glutamine, Sodium Pyruvate, HEPES

Cat. No.: C3130-0500

Size: 500 mL

Product Description

Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 Ham (DMEM/F-12, 1:1 mixture) with L-Glutamine and HEPES was originally formulated for rat neuroblastoma cells and MDCK cells. The mixture is extremely nutritious and supports the growth of a wide variety of cells including certain epithelial, endothelial, and granulosa cells.

It does not contain any trace elements. Users are advised to review the literature for recommendations regarding medium supplementation and physiological lines.

Composition

| Ingredients | mg/L | Ingredients | mg/L |
|---------------------------------------|---------|---------------------------------------|----------|
| INORGANIC SALTS | | | |
| Calcium chloride dihydrate | 154.500 | Magnesium sulphate anhydrous | 48.840 |
| Copper sulphate pentahydrate | 0.001 | Potassium chloride | 311.800 |
| Disodium hydrogen phosphate anhydrous | 71.020 | Sodium chloride | 6996.000 |
| Ferric nitrate nonahydrate | 0.050 | Sodium dihydrogen phosphate anhydrous | 54.300 |
| Ferrous sulphate heptahydrate | 0.417 | Zinc sulphate heptahydrate | 0.432 |
| Magnesium chloride hexahydrate | 61.200 | | |
| AMINO ACIDS | | | |
| Glycine | 18.750 | L-Leucine | 59.050 |
| L-Alanine | 4.450 | L-Lysine hydrochloride | 91.250 |
| L-Arginine hydrochloride | 147.500 | L-Methionine | 17.240 |
| L-Asparagine monohydrate | 7.500 | L-Phenylalanine | 35.480 |
| L-Aspartic acid | 6.650 | L-Proline | 17.250 |
| L-Cysteine dihydrochloride | 17.560 | L-Serine | 26.250 |
| L-Cystine hydrochloride monohydrate | 31.290 | L-Threonine | 53.450 |
| L-Glutamic acid | 7.350 | L-Tryptophan | 9.020 |
| L-Glutamine | 365.000 | L-Tyrosine disodium salt | 48.100 |
| L-Histidine hydrochloride monohydrate | 31.480 | L-Valine | 52.850 |
| L-Isoleucine | 54.470 | | |



Vitamins

| | | | |
|-------------------------|-------|--------------------------|--------|
| Choline chloride | 8.980 | Pyridoxine hydrochloride | 0.031 |
| D-Biotin | 0.004 | Riboflavin | 0.219 |
| D-Pantothenic acid | 2.240 | Thiamine hydrochloride | 2.170 |
| Folic acid | 2.660 | Vitamin B12 | 0.680 |
| Niacinamide | 2.020 | myo-Inositol | 12.600 |
| Pyridoxal hydrochloride | 2.000 | | |

OTHERS

| | | | |
|------------------|----------|--------------------------|----------|
| D-Glucose | 3151.000 | Phenol red sodium salt | 8.630 |
| DL-Thioctic acid | 0.105 | Putrescine hydrochloride | 0.081 |
| HEPES buffer | 3574.500 | Sodium pyruvate | 110.000 |
| Hypoxanthine | 2.400 | Thymidine | 0.365 |
| Linoleic acid | 0.042 | sodium bicarbonate | 1200.000 |

Storage and Stability

The product should be kept at **2 - 8°C**.

The product is **light-sensitive** and therefore should not be left in the light.

Shelf life: 12 months from date of manufacture.

Procedure

1. Take a bottle from the defined storage conditions at 2 - 8°C and read the label.
2. Wipe the outside of the bottle with a disinfectant solution such as 70% ethanol.
3. Pipette the appropriate volume of the product using an aseptic/sterile technique under a laminar-flow culture hood.
4. Add antibiotics or other nutrients if desired.

Quality Control

Dulbecco's Modified Eagle Medium/Nutrient Mixture F12 Ham (DMEM/F-12, 1:1 mixture) with L-Glutamine and HEPES is tested for sterility, pH, osmolality, and endotoxin concentration. In addition, each batch is tested for cell growth performance.

Manufacturer

Shanghai Dr. Cell Co., Ltd.

Issue Date

June 2023

Precaution and Disclaimer

For research use only, not for clinical diagnosis, and treatment.

