

## DMEM/F12 Medium, dry powder

**Cat:** C3280

**Size:** 1L/10L

**Storage:** 2-8°C, store away from light, valid for 3 years.

### Introduction:

DMEM/F12 medium is on the basis of DMEM medium, adding more abundant nutrients in F12 medium, containing a variety of trace elements, widely used in a variety of mammalian cell culture. At the same time, DMEM/F12 medium is often used as the basis for the development of serum-free medium, and is also suitable for the culture of mammalian cells under low serum content and clone density culture. This product contains amino acids, vitamins, inorganic salts and other components required for cell culture, but does not contain proteins, lipids or any growth factors, so the product should be used with serum or serum-free additives.

### Protocols(only for reference):

1. Pour about 90% ultra-pure water into a container, take a bag or weigh 1L of this product, pour all into the container, and wash the residual powder in the bag with a small amount of ultra-pure water.
2. Stir for 30min to completely dissolve all ingredients. After the solution is clarified, add 2.438g sodium bicarbonate(analytical pure) and continue to stir for 5-10min until dissolved.
3. Add ultra-pure water to 1L.
4. If necessary, use 1mol/L sodium hydroxide solution or 1mol/L hydrochloric acid solution to adjust the PH value to 7.20-7.30, because filtration will make the PH value of the medium slightly higher, so here than the target PH value(7.20-7.40) is lower.
5. Positive pressure filtration with a filter membrane with a pore size of 0.2μm to remove bacteria(pay attention to aseptic operation).
6. At the end of filtration, you can take a little liquid medium for bacteria test, and then use it after passing. At this time, the shelf life of the liquid medium is 1 year, and the storage condition is 2~8°C.

**Note:** The use method takes 1L specification as an example, and the use method of other specifications adds the corresponding amount of sodium bicarbonate and determination according to the corresponding specification

It can be filled to the volume of the corresponding specification.

### General Ingredients Description:

Form	Powder
L-glutamine	2.5mM
D-glucose	3151mg/L
Sodium pyruvate	0.5mM
Phenol red indicator	8.1mg/L

### Notes:

1. For your safety and health, please wear lab clothes and disposable gloves and masks;

2. In order to maintain the best use of this product, please be sure to store it in accordance with the recommended storage conditions;
3. This product is for scientific research or further production use only, not for clinical diagnosis or treatment.