

## IMDM Medium, dry powder

**Cat:** C3310

**Size:** 1L/10L

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

### Introduction:

IMDM(Iscove's Modified Dulbecco Medium), Iscove's modified DMEM medium, was designed by Guilber and Iscove in 1976 for the culture of erythrocyte precursors and macrophages. On the basis of DMEM medium, IMDM medium added selenium, HEPES, sodium pyruvate and additional amino acids and vitamins, which is very rich in nutrition and is very suitable for rapid proliferation and high-density cell culture. IMDM culture medium can not only culture cells with special nutritional requirements(such as mouse B lymphocytes, LPS-stimulated B cells, bone marrow hematopoietic cells, T lymphocytes, and various hybridoma cells), but also serve as the base fluid for some unique serum-free media. This product contains amino acids, vitamins, inorganic salts and other ingredients required for cell culture, but does not contain proteins, lipids or any growth factors, so this product should be used with serum or no serum 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 out 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 3.024g sodium bicarbonate (analytical pure) and continue to stir for 5-10min until dissolved.
3. Add ultra-pure water to 1L.
4. If necessary, adjust the PH to 7.20-7.30 with 1mol/L sodium hydroxide solution or 1mol/L hydrochloric acid solution, which is lower than the target PH value(7.20-7.40) because filtration will make the PH of the medium slightly higher.
5. Remove bacteria by positive pressure filtration with a filter membrane with a pore size of 0.2 $\mu$ m(pay attention to aseptic operation).
6. After filtration, a small amount of liquid medium can be taken for bacterial test, and then used 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 the 1L specification as an example, and the use method of other specifications can be used by adding the corresponding amount of sodium bicarbonate and fixing the volume to the corresponding specification.

### General Ingredients Description:

Form	Powder
L-glutamine	4mM

D-glucose	4500mg/L
Sodium pyruvate	1mM
HEPES Buffer	25mM
Phenol red indicator	15.0mg/L

**Notes:**

1. For your safety and health, please wear a lab coat, disposable gloves and a mask;
2. In order to maintain the best use of this product, please be sure to store in accordance with the recommended storage conditions;
3. This product is intended for scientific research or further production use only and is not intended for clinical diagnosis or treatment.