Customer service: service@abbkine.com
Technical support: support@abbkine.com
Website: https://www.abbkine.com

RPMI-1640 Medium, With Phenol Red

Cat #: BMC1011 Size: 500 mL

	RPMI-1640 Medium, With Phenol Red		
REF	**Cat #:** BMC1011	LOT	**Lot #:** Refer to product label
	Applicable cells: Mammalian cells		
	Storage: Stored at 4℃ for 12 months		

Assay Principle

RPMI-1640 was developed by Moore et al in 1967 at Roswell Park Memorial Institute (RPMI), where RPMI is a type of cell culture-medium developed by the institute, and 1640 is the culture-medium code. RPMI-1640 is an improved version of McCoy's 5A medium that uses a bicarbonate buffering system. RPMI-1640 Medium, With Phenol Red 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. This product is filtered with 0.1 μm filter membrane to remove bacteria, without high temperature and high pressure sterilization, less nutrient loss, ready to open the bottle; To provide a variety of component combinations of cell media to meet various needs; Suitable for a variety of mammalian cell cultures, including Jurkat, MCF-7, PC-12, PBMC, astrocytes and tumor cells, especially suitable for suspension cell culture, is a widely used cell medium.

Component Description

Concentration	1×
pH	7.2-7.4
L-Glutamine	2 mM
$NaHCO_3$	2,000 mg/L
D-Glucose	2,000 mg/L
Sodium Pyruvate	None
HEPES Buffer	None
Phenol Red Indicator	5 mg/L

Materials Required but Not Supplied

- Microscope, incubator (37℃, 5%CO_2), fetal bovine serum (FBS), trypsin solution
- Centrifuge
- Culture bottle, precision pipettes, disposable pipette tips

Reagent Preparation

Preparation of complete medium: 10 mL fetal bovine serum (FBS) was added to 90 mL RPMI-1640 Medium, With Phenol Red, mixed well, and double antibody could be added as required.

Assay Procedure

1. Adherent cells: Passage when the cell density reaches 80-90%

(1) The culture supernatant was discarded and the cells were cleaned with PBS 1-2 times.

(2) Add appropriate amount of trypsin solution, make the trypsin solution cover the whole cell culture bottle, cover it well and put it into the incubator (37℃, 5%CO_2) for digestion.

(3) The cells were observed under the microscope, and the cells contracted obviously, and the morphological changes of the cells were found at the bottom of the culture vessel by naked eye; Or when you blow the cells with a gun and find that the cells can just be blown down, add an appropriate amount of complete medium and blow down the cells to terminate digestion.

Note: Different cells have different digestion times.

(4) The cell suspension was centrifuged at 1,000 rpm for 5 min and the supernatant was discarded.

(5) Resuspend the cells with fresh complete medium, add them to a new culture bottle, and add sufficient complete medium.

Note: The passage ratio is different for different cells.

(6) Put the cells back into the incubator (37℃, 5%CO_2) for further culture.

2. Suspension cells: Passage when the cell density reaches 80-90%

(1) All cell cultures were collected, centrifuged at 1,000 rpm for 5 min, and the supernatant was discarded.

(2) Resuspend the cells with fresh complete medium, add them to a new culture bottle, and add sufficient complete medium.

Note: The passage ratio is different for different cells.

(3) Put the cells back into the incubator (37℃, 5%CO_2) for further culture.

Precautions

1. Store the product in the refrigerator at 4℃ as soon as possible after receiving it, avoid long-term storage at room temperature. In order to maintain the best use effect of the product, do not freeze or thaw treatment.

2. Use caution. When re-storing the bottle after opening, you need to seal the bottle with a sealing film to avoid contamination.

3. Some contents such as L-glutamine are easy to degrade, so do not store for too long and use as soon as possible.

Disclaimer

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.