

MetaCell® 293 Cloning Medium

User Manual

Product Description

MetaCell® 293 Cloning Medium is specially designed for single-cell cloning of HEK293 cells. It enables individual cells to maintain favorable cellular condition during the monoclonal screening process, facilitating their growth and proliferation and significantly enhancing the efficiency of monoclonal screening. This product is a chemically defined medium, free of hydrolysates and any animal-derived components, making it suitable for serum-free and hydrolysate-free cell-culture processes.

MetaCell® 293 Cloning Medium contains 4mM glutamine derivative.

Product Name	Cat No.	Size	Storage	Shelf Life	Application
MetaCell® 293 Cloning Medium	L2006-0100	100mL	2-8°C, protected from light	12 months	Single-cell cloning of HEK293 cells
	L2006-0500	500mL			

This product is intended for research or further manufacturing but not for human or therapeutic use.

Operation Instructions:

• Preparation of Condition Medium (CM)

1. Use MetaCell® HEK293-100 to culture the target HEK293 cells, with an inoculated viable cell density of 0.6×10^6 cells/mL.
2. Collect the condition medium after 4 days of culturing and centrifuge it at 200g for 5 minutes.
3. Filter the condition medium through a 0.22 µm filter and set it aside (it can be stored at 4 °C for 1 week).

• Cell Activation

Activate the cells one day before monoclonal plating, with an initial seeding density of 1.0×10^6 cells/mL.

• Cell Plating

1. Prepare the cloning medium: 80% MetaCell® 293 Cloning Medium and 20% condition medium.
2. Perform limited dilution using MetaCell® HEK293-100, and during the final dilution step, use the cloning medium to adjust the cells into a 96-well plate, with 200 µL per well and a cell density of 0.5 cells per well.

Related Products

产品	Classification	Form	Cat No.	Size
MetaCell® HEK293-100	Basal medium	Liquid	L2000-0500	500mL
			L2000-1000	1000mL
		Powder	P2000-X010	10L
			P2000-X100	100L