

5 x Binding Buffer

Code No.
4695-300

Quantity
50 mL

BACKGROUND: Apoptosis, a term that describes regulated cell death, is fundamental feature of many processes including normal development, homeostasis and disease. Early during the process of apoptosis, cells lose their phospholipids membrane asymmetry and expose phosphatidylserine (PS) at the cell surface. This process can be monitored by using Annexin V which is a Ca^{2+} -dependent phospholipids binding protein with high affinity for PS, and is useful for identifying apoptotic cells with exposed PS. Translocation of PS to the external cell surface is not unique to apoptosis, but occurs also during cell necrosis. The difference between these two forms of cell death is that during the initial stages of apoptosis the cell membrane remains intact, while at the very moment that necrosis occurs the cell membrane loses its integrity and becomes leaky. Therefore, necrotic cells easily stained with Propidium Iodide (PI) as well as Annexin V, where as Apoptotic cells stained only with Annexin V.

RELATED PRODUCTS:

4690	APOPCYTO Annexin V-Azami-Green Apoptosis Detection Kit
4700	MEBCYTO Apoptosis Kit
8445	MEBSTAIN Apoptosis TUNEL Kit Direct
8441	MEBSTAIN Apoptosis TUNEL Kit II
4800	APOPCYTO Caspase-3 Colorimetric Assay Kit
4805	APOPCYTO Caspase-8 Colorimetric Assay Kit
4810	APOPCYTO Caspase-9 Colorimetric Assay Kit
4815	APOPCYTO Caspase-3 Fluorometric Assay Kit
4820	APOPCYTO Caspase-8 Fluorometric Assay Kit
4825	APOPCYTO Caspase-9 Fluorometric Assay Kit
4817	Intracellular Caspase-3 Activity Detection Kit
4822	Intracellular Caspase-8 Activity Detection Kit
4827	Intracellular Caspase-9 Activity Detection Kit
4830	APOPCYTO Intracellular Caspases Activity Detection Kit

FORMULATION:

50 mM HEPES/NaOH pH 7.4
750 mM NaCl
25 mM KCl
5 mM $MgCl_2$
9 mM $CaCl_2$

STORAGE: This solution is stable for two years from the date of manufacture when stored at 4°C.

APPLICATIONS:

This solution can be used as reaction buffer for Annexin V.

PREPARATION:

Before use, dilute this 5 x Binding Buffer to 1 x with distilled or deionized water. For example, to make 1 mL of 1 x Binding Buffer, add 200 μ L of 5 x Binding Buffer to 800 μ L of water and mix thoroughly.

INTENDED USE:

For Research Use Only. Not for use in diagnostic procedures.

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