



10X KRB-IBMX Buffer Information

Product

- Contents: 10X Krebs-Ringer Bicarbonate Buffer (KRB), 7.5 mM of 3-Isobutyl-1-Methylxanthine (IBMX), 10% ethanol in volume.
- Volume: 1.5 ml

Catalog No.: 122937

Storage Temperature: -20°C

Product Description:

10X KRB-IBMX Buffer solution is a mixture of a 10X concentrate of Krebs-Ringer Bicarbonate Buffer (KRB) supplemented with a 10X concentration (i.e., 7.5 mM) of 3-Isobutyl-1-Methylxanthine (IBMX) and containing 10% ethanol. A 1:10 dilution of the 10X KRB-IBMX Buffer solution (prepared as described below) is recommended for use in the preparation of cells (either suspension or adherent cells) intended for cAMP analysis using either Mediomics' Bridge-It™ cAMP designer fluorescent assay or Bridge-It™ cAMP **all in one** fluorescent assay. While the 1X balanced salt solution KRB serves to provide cells with water and essential inorganic ions to maintain pH and osmotic balance, the IBMX is a potent phosphodiesterase inhibitor that will block the degradation of cAMP.

Preparation of 1X KRB-IBMX Buffer:

1. Thaw the 10X KRB-IBMX Buffer (1.5 ml) at room temperature.
2. Add it to 13.5 ml of double distilled sterilized water.
3. Incubate the 1X KRB-IBMX Buffer at 37°C for 5 minutes and vortex until the solution is clear.

Note: The 10X KRB-IBMX Buffer is turbid after it is thawed. The turbidity will disappear after the 1X KRB-IBMX Buffer is prepared as described above.

Storage / Stability:

10X KRB-IBMX Buffer is stable for at least 10 months if stored tightly sealed and frozen at -20°C. After 10X KRB-IBMX Buffer is thawed and diluted 1:10 for use, any unused 1X KRB-IBMX Buffer should be tightly sealed and stored in the refrigerator at 4°C. The 1X KRB-IBMX Buffer is stable for at least 1 months when tightly sealed and refrigerated at 4°C.

Caution:

IBMX is a potent phosphodiesterase inhibitor. Direct eye, skin and respiratory contact with this material should be avoided. Work in a well ventilated area and wear rubber gloves, safety glasses, and a laboratory coat when handling this material. See product MSDS for additional handling precautions and disposal information.