

K4[®] Multiplier

Additive for the Transfection of Mammalian Cells

For ordering information, SDS, publications and application notes see www.biont.com

Product	Order-No.	Size
K4 [®] Multiplier	T082-0.5	1 x 0.5 ml
K4 [®] Multiplier	T082-1.0	1 x 3.5 ml
K4 [®] Multiplier	T082-2.0	2 x 3.5 ml

Shipping: Room temperature

Storage: 4°C

Stability: Best before: see label

Use: Only for research purposes *in vitro*, not intended for human or animal diagnostic, therapeutic or other clinical uses.

Description

Eukaryotic cells have an innate immune system which makes them able to detect foreign bacterial or viral nucleic acids and take defensive measures or even undergo apoptosis. Moreover, the cells announce their presence to neighboring cells via messenger molecules. As a consequence, these neighbors adopt defense modus without even having contact with the foreign nucleic acids.

The K4[®] Multiplier decreases the cells' ability to detect foreign nucleic acids and can increase transfection efficiency and viability as a result, independently of the transfection reagent or method used.

Index

1. General Information	3
1.1 Specifications	3
1.2 Storage	3
2. Working Instruction	3
3. Micellaneous.....	4
3.1 Important Information	4
3.2 Warranty	4

1. General Information

1.1 Specifications

Application	Additive for the cell culture medium during Transfection of mammalian cells with DNA & RNA
Assays	3.5 ml are sufficient for 350 ml culture medium
Sterility	testet
Cell Culture**	testet
Storage	4°C

* Thioglycolate test

** Standard transfection test

1.2 Storage

The K4[®] Multiplier is **shipped at room temperature and should be stored upon receipt in a refrigerator at 4°C**. A storage over several days at room temperature is not a problem.

2. Working Instruction

1/2 h before transfection give the K4[®] Multiplier to the cell culture medium of the cells to be transfected in an amount equivalent to 1% of the volume of the medium (10µl Multiplier to 1 ml of Medium).

Remark:

In case you work with reporter genes generating fluorescent proteins (e.g. GFP, RFP and YFP, etc.) and using a microscope to evaluate, pay attention that the the same exposure time is set for comparison of photos resulting from transfection experiments with and without K4[®] Multiplier. Otherwise an automatic setting of the exposure time in accordance with the brightness of the fluorescent cells will be made by the microscope (auto exposure), which does not allow for an objective comparison.

3. Micellaneous

3.1 Important Information

K4[®] is a registered trademark of Biontex Laboratories GmbH.

The K4[®] Multiplier is developed and sold for research purposes and *in vitro* use only. It is not intended for human or animal therapeutic or diagnostic purposes.

3.2 Warranty

Biontex guarantees the performance of this product until the date of expiry printed on the label when stored and used in accordance with the information given in this manual. If you are not satisfied with the performance of the product please contact Biontex Laboratories GmbH.

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