

Micro Dehydroascorbic Acid (DHA) Assay Kit | DHA assay kit

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CATALOG #
AAA332617

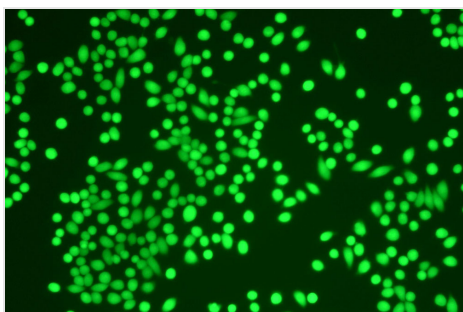
PRODUCT SYNONYMS

Micro Dehydroascorbic Acid (DHA); Micro Dehydroascorbic Acid (DHA) Assay Kit; DHA; DHA assay kit

PRODUCT SPECIFICATIONS

Samples	Cells
Usage Notes	If a medium containing serum is used, the esterase in the serum will hydrolyze Fluo-4 AM, thus reducing the effectiveness of Fluo-4 AM in entering cells. In addition, the medium containing phenol red will make the background value slightly higher, and the residual medium should be removed as far as possible before adding the Stain Solution. Ionomycin is an ionic vector with affinity for calcium. The increase in green fluorescence intensity can be observed within a few seconds after Ionomycin treatment. It is recommended to use laser confocal microscope to continuously take photos to detect the change of intracellular calcium concentration.
Preparation and Storage	Stored at -20 degree C for 12 months, protected from light

IMAGES



Application Data
Fig.Fluo-4 Calcium Assay Kit

ADDITIONAL INFORMATION

Related Product Information for DHA assay kit	Principle of the Assay: Fluo-4 Calcium Assay Kit is a kit for detecting intracellular calcium concentration based on Fluo-4 AM calcium fluorescent probe. This kit can be used for fluorescence imaging detection using a fluorescence microscopy, or quantitative fluorescence detection using fluorescence microplate reader or flow cytometry. Using fluorescence microscopy or fluorescence microplate reader can also detect the dynamic changes of the intracellular calcium concentration. Fluo-4 is a calcium fluorescence probe that replaces Cl in the Fluo-3 structure with F. Due to the replacement of Cl with F with stronger electronic attraction, its maximum excitation wavelength will deviate by about 10 nm towards the shorter wavelength direction. This wavelength is closer to the wavelength of an argon laser, so when excited by an argon laser, the fluorescence intensity of Fluo-4 is stronger than that of Fluo-3. Fluo-4 AM penetrates the cell membrane and enters the cell, where it is cleaved by esterases within the cell to form Fluo-4, which is then trapped within the cell. When Fluo-4 exists as a free ligand, it is almost non fluorescent, but when combined with intracellular calcium, it can produce strong fluorescence. Laser confocal microscope can be used to detect changes in intracellular calcium concentration.
Product Categories/Family for DHA assay kit	Cytology; Cell Metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/assay-kits/micro-dehydroascorbic-acid-dha/332617>