

# Calcein AM

## Cell Culture Tested

**Product Code: TC474**

### Product Description :

Molecular weight: 994.86

Molecular formula:  $C_{46}H_{46}N_2O_{23}$

CAS No.: 148504-34-1

Synonym: Calcein O,O'-diacetate tetrakis (acetoxymethyl) ester, fluorexon.

Calcein AM is a non-fluorescent, hydrophobic compound that is easily permeable in intact and live cells. It is used to determine cell viability in most eukaryotic cells. Calcein AM is converted to a green-fluorescent calcein after acetoxymethyl ester hydrolysis by intracellular esterases, which is retained in the cytoplasm. The signal (excitation and emission of 488nm / 520nm respectively) of Calcein-AM is proportional to cell viability, as esterase activity decreases in cells with poor viability.

### Quality Control:

#### Appearance

Colourless to yellow crystals or solid or paste or oil or film

#### Solubility

20 ppm in dimethylsulphoxide yields colourless to light yellow solution

#### Assay (HPLC)

NLT 98.00 %

#### Cell culture test

Complies

### Storage and Shelf Life:

Store at  $-20^{\circ}\text{C}$  in a dry place preferably in a desiccator or in a container with desiccant for no more than one month.

This product is light sensitive.

Use before expiry date given on the product label.

Revision : 0 / 2017

#### Disclaimer :

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