

Acridine orange

Cell Culture Tested

Product Code: TC262

Product Description :

Molecular Weight: 369.96

Cas No: 10127-02-3

Molecular Formula: $C_{17}H_{20}ClN_3 \cdot 1/2 ZnCl_2$

Acridine orange is a fluorochrome stain which differentially stains DNA and other cellular structures. It absorbs UV light and emits visible light. DNA is stained yellow green whereas cellular sub-structures including RNA are stained orange.

Acridine Orange is used in detection of sister chromatid exchange during karyotyping and in detection of RNA in DNA.

FTIR

Matches with the standard pattern.

Cell Culture Test

Passes

Storage and Shelf Life:

The powdered form should be stored at 10-30°C.

Shelf life of the product is 48 months.

Use before expiry date given on the product label.

Quality Control:

Appearance

Brown to red - brown or violet powder.

Solubility

Clear very dark brown to orange solution at 5gms in 10 ml of water.

Dye content

~ 80%

Absorption maximum 1

489 - 495 nm (0.005 g/l in water)

Absorption maximum 2

285 - 291 nm (0.005 g/l in water)

Absorption maximum 3

265 - 271 nm (0.005 g/l in water)

Suitability for electrophoresis

passes test

Loss on drying (at 110°C)

NMT 5.0%

Disclaimer :

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