Acridine orange
Cell Culture Tested

Product Code: TC262

Product Description:

Molecular Weight: 369.96
Cas No: 10127-02-3
Molecular Formula: C₁₇H₂₀ClN₃½ZnCl₂

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.

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%

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.

Disclaimer:

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