



Europa Bioproducts Ltd

15-17 North Street • Wicken
Ely • Cambridgeshire • CB7 5XW
Tel: 0044 (0)1353-721118
Fax: 0044 (0)1353-624589

Cellstain-AO Solution

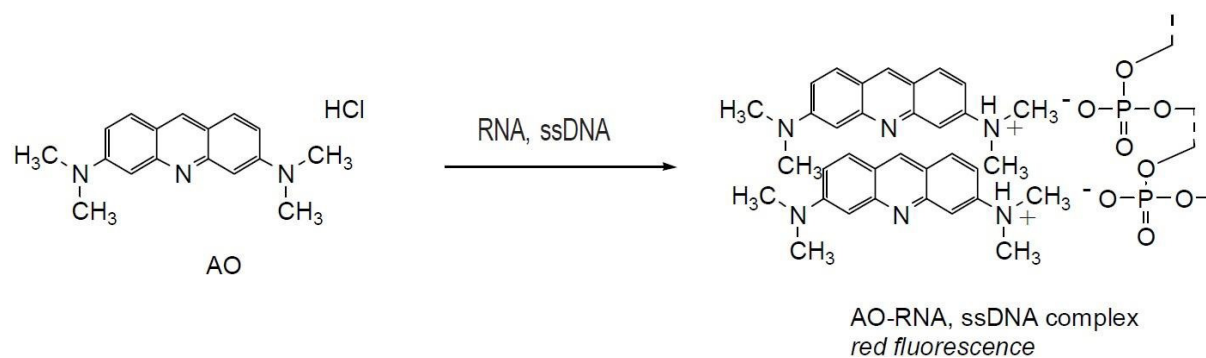
Item# Unit Size
A430-10 1 mL

Chemical Name: 3,6-Bis(dimethylamino)acridine, hydrochloride, aqueous solution
Product: 3.3 mM AO aqueous solution (1 mg AO per 1 ml water)
Appearance: orange or yellow solution
MW: 301.81, C₁₇H₂₀N₃

Storage Condition: -20°C, protect from light
Shipping Condition: ambient temperature

Product Description

Acridine orange (AO) forms a complex with double-stranded DNA to emit green fluorescence (Fig. 1). AO also forms a complex with singlestranded DNA or RNA to emit red fluorescence. One molecule of AO intercalates with three base pairs of double-stranded DNA and emits green fluorescence with the maximum wavelength at 526 nm (excitation 502 nm). One molecule of AO can also interact with one phosphate group of single-stranded DNA or RNA to form an aggregated, or stacked, structure that emits red fluorescence with the maximum wavelength at 650 nm (excitation 460 nm). Therefore, AO is utilized for the detection of both double-stranded DNA and single-stranded DNA or RNA. It enables simultaneous determination of DNA and RNA with argon laser excitation or flow cytometry.



CERTIFICATE NO. 8222

E-mail: info@europa-bioproducts.com

Web site: <http://www.europa-bioproducts.com>

Registered Office: 15-17 North Street, Wicken, Ely, Cambridgeshire CB7 5XW

Registered Number: 2703381