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Cellstain-AO

Item# Unit Size
A386-10 1 mg

Chemical Name: 3,6-Bis(dimethylamino)acridine,
hydrochloride **CAS:** 65-61-2
Appearance: reddish-brown
powder **MW:** 301.81,
C₁₇H₂₀ClN₃

Storage Condition : 0-5°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.

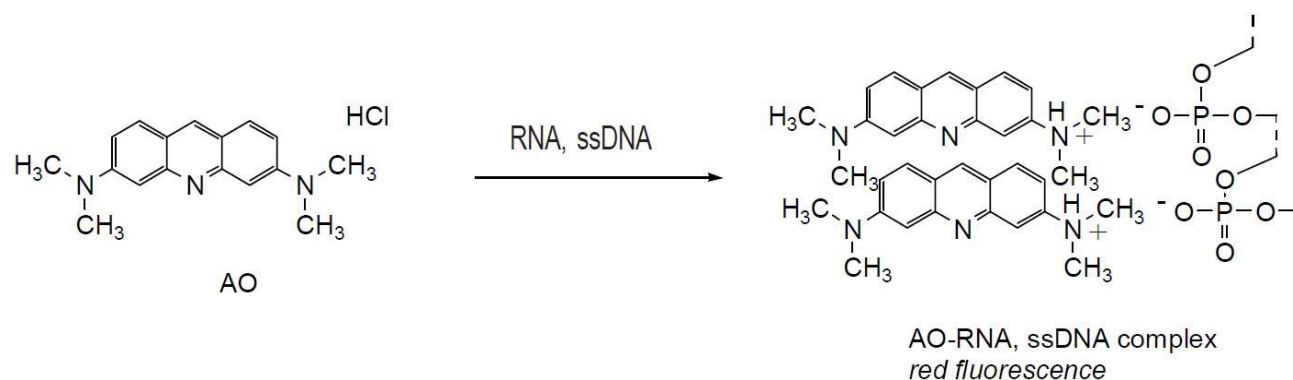


Fig. 1 Cell staining mechanism



CERTIFICATE NO. 3222

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