



Product Information Sheet

C1759 Carmine

Synonyms: C.I. 75470; Cochineal; Nacarat; Natural Red 4; Crimson Lake
CAS: 1390-65-4
Formula: C₂₂H₂₀O₁₃
Mol. Weight: 492.39

Properties

Form: Powder
Appearance: Red to Red-violet
Application: Histology, Cell staining
Solubility: NaOH, KOH, Slightly Soluble in Hot Water, 45% Acetic acid (Jain & Gupta, 2005)
Storage Temp: Room Temperature
Stock Solution: Room Temperature
Storage Temp: Room Temperature
Typical Working Concentration: Varies with application, should be determined by end user.

Application Notes

Can be used with Evans Blue (Prod# E2799) to stain cells for somatic embryogenesis observation; Gupta & Durzan (1987) used a 2% acetocarmine solution (carmine dissolved in 45% acetic acid in water) in conjunction with a 0.5% strength Evans Blue stain.

References

Gupta PK and Durzan DJ (1987) Biotechnology of somatic polyembryogenesis and plantlet regeneration in loblolly pine. *Bio/Tech* 5:147-151. 28.
Jain SM & PK Gupta (eds) (2005) Protocol for Somatic Embryogenesis in Woody Plants. 573-575 Springer.Netherlands.