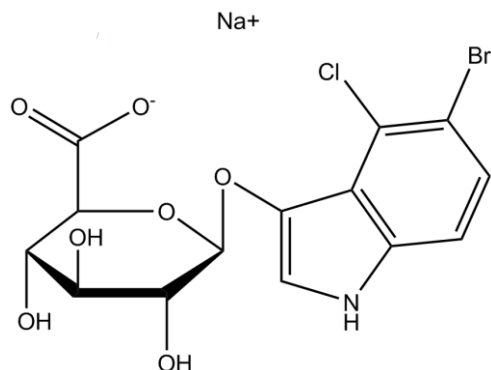


Product Information Sheet

X871
X-Gluc, Sodium Salt

 Synonym: 5-Bromo-4-chloro-3-indolyl- β -D-glucuronic Acid, Sodium Salt

CAS: 129541-41-9

 Formula: $C_{14}H_{12}BrClNaNO_7$

Molecular Wt: 444.6

Properties

Form: Powder

Appearance: White Powder

Application: Molecular Biology

Solubility: DMSO

Typical Working Concentration: 1 mg/mL in staining solution

Storage Temp: -20 to 0° C

Storage Temp of Stock Solution: -20 to 0° C

Application Notes

X-Gluc is often used to detect β -glucuronidase (GUS) activity in genetically modified plant tissue. β -glucuronidase is encoded by the *gusA* (*uidA*) gene found in *Escherichia coli*. In transformed cells, β -glucuronidase cleaves X-gluc, leaving glucuronic acid and an intermediate indoxyl. The intermediate indoxyl oxidizes and forms an insoluble blue dimer, 5,5'-dibromo-4,4'-dichloro-indigo, indicating GUS activity through blue color.

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