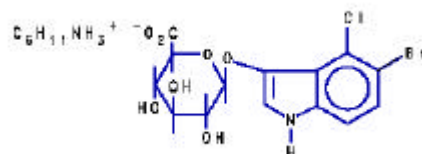


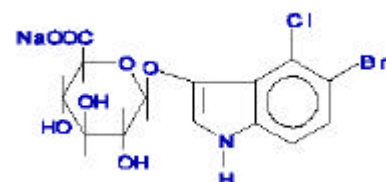
X-GLUC

Product Description

Catalog number: UP194285, 100mg
 Name: **X-GLUC cha**
 Formula : 5-BROMO-4-CHLORO-3-INDOLYL- β -D-
 GLUCURONIC ACID CYCLOHEXYLAM
 MONIUM SALT
 C₂₀H₂₆BrClN₂O₇, M.W.= 521.8 ,
 CAS[114162 -64-0]



Catalog number: UPM16321, 100mg
 Name: **X-GLUC, Na**
 Formula : 5-BROMO-4-CHLORO-3-INDOLYL- β -D-
 GLUCURONIC ACID, SODIUM SALT
 C₁₄H₁₂BrClNO₇Na, M.W.= 444.6,
 CAS[129541 -41-9]



Storage : -15°C ± 5°C under Nitrogen in dark.

Use: Chromogenic substrate for β -glucuronidase. Use in *E. coli* detection.

General Considerations

The chromogenic substrate X-Gluc is used in a variety of applications for the detection of the β -glucuronidase enzyme. Upon reduction, X-Gluc produces a localized color, making it useful in identifying *GUS* gene presence in most cell types¹ and for the detection of the *GUS* gene fusion marker in plants.^(2,3) X-Gluc has reported applications in the detection of contaminated food samples such as meat, dairy, and shellfish products.^(4,5) X-Gluc also has clinical applications in the assessment of urinary tract infection by detecting the presence of *E. coli*.⁽⁶⁾ It has gained international acceptance as an accurate indicator for the presence of *E. coli* in potable water samples by reducing false positives and negatives found with traditional methods.

BENEFITS

- Saves time compared to other *E. coli* detection methods... 24 hour direct plating
- Method (7,9,11)
- Minimizes errors...less than 1% false negatives and less than 5% false positives (7,8,9)
- Easy visual detection...(8) max is in visible range
- Sensitive for presence/absence of *E. coli*...eliminates limitations of very rapid presence/absence or chemiluminometric methods (12)

APPLICATIONS

- Environmental testing of *E. coli* in potable water (7,8,9,10)
- Detection of *GUS* expression in the study of transcription, translation, and protein transport events (2,3)
- Determination of urinary tract infections (6)
- Identifying food products contaminated with *E. coli* (4,5)

Contact your local distributor

Literature

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