



## Product Information

### Indoxyl $\beta$ -D-glucoside

Product Number **I 3750**  
Storage Temperature -0 °C

#### Product Description

Molecular Formula:  $C_{14}H_{17}NO_6$   
Molecular Weight: 295.3  
CAS Number: 487-60-5  
Melting Point: 57-58 °C.  
Specific Rotation: -66° (10 mg/ml in water at 19 °C).

This product is a chromogenic substrate used in the detection of  $\beta$ -D-glucosidase activity. This has been used in filter assays to screen water sources and other media for various enterococci and *C. perferingens* contamination.<sup>2,3,4,5</sup>

Tissue specific, intracellular expression of  $\beta$ -D-glucosidase activity in plants has been assayed.<sup>6</sup>

#### Precautions and Disclaimer

For Laboratory Use Only. Not for drug, household or other uses.

#### References

1. The Merck Index, 10th ed. Entry# 4833.
2. Messer, J. W., and Dufour, A. P., A rapid, specific membrane filtration procedure for enumeration of enterococci in recreational water. *Appl. Environ. Microbiol.*, **64**, 678-680 (1998).
3. Rhodes, M. W., and Kator, H., Enumeration of *Enterococcus* sp. using a modified mE method. *J. Appl. Microbiol.*, **83**, 120-126 (1997).
4. Bisson, J.W., and Cabelli, V.J., Membrane filter enumeration method for *Clostridium perfringens*. *Appl. Environ. Microbiol.*, **37**, 55-66 (1979).
5. Armon, R., and Payment, P., A modified m-CP medium for enumerating *Clostridium perfringens* from water samples. *Can. J. Microbiol.*, **34**, 78-79 (1988).
6. Minami, Y., et al., Beta-Glucosidase in the indigo plant: intracellular localization and tissue specific expression in leaves. *Plant Cell Physiol.*, **38**, 1069-1074 (1997).

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