MANNAN (1,4-β-D-Mannan)

P-MANCB

CAS: 9036-88-8
Source: Carob seed

STRUCTURE:

Refer to the product lot number Certificate of Analysis for lot specific properties.

PROPERTIES:
Physical Description: Odourless, white powder

STORAGE CONDITIONS:
This mannan is prepared by hydrolysis of carob galactomannan with pure Cellvibrio japonicus
β-mannanase (with heat inactivation), followed by treatment with guar-seed α-galactosidase to remove essentially
all of the α-linked D-galactosyl residues. The mannan which forms precipitates from solution and is recovered by
centrifugation and washed with cold water.

This mannan is a useful substrate for the measurement of 1,4-β-D-mannanase assay using a reducing sugar method.

SOLUBILITY:
Insoluble in water. Can be dissolved at 20 mg/mL in 5% w/v sodium hydroxide.
On neutralisation with 50% acetic acid, the mannan precipitates from solution as a very fine colloidal suspension.
The suspension should be mixed gently by swirling the container by hand before removing aliquots for use in
enzyme assays.