

CM-CURDLAN

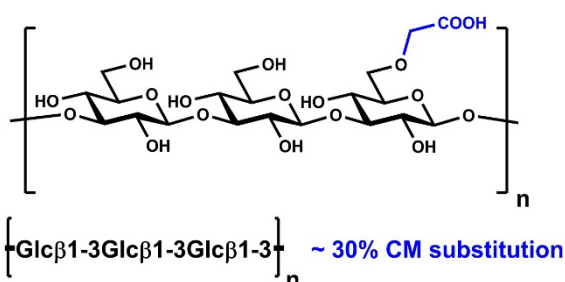
08/23

P-CM-CUR

CAS: 114732-86-4

Source: *Alcaligenes faecali*

STRUCTURE:



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

PROPERTIES OF CM-CURDLAN:

Degree of carboxymethylation (DS): ~ 0.4

Molecular Weight: 1,650 KD

Colour: Light tan coloured powder

Enzyme susceptibility: Readily hydrolysed by *endo*-1,3- β -glucanase

PREPARATION:

Carboxymethyl curdlan (CM-Curdlan) is prepared by carboxymethylation of highly purified curdlan with chloroacetic acid. Curdlan is a polymer of 1,3- β -linked D-glucosyl residues.

DISSOLUTION:

To 90 mL of vigorously stirring water at 90°C gradually add 0.5 g of CM-curdlan. Continue stirring for about 1 h (until the polysaccharide is completely dissolved).

Cool the solution to room temperature and add 5 mL of sodium acetate buffer (2 M, pH 5.0). Adjust the volume to 100 mL and store the solution in a well-sealed glass container at 4°C.

For some 1,3- β -glucanases, a higher pH is required for activity; in these cases, substitute an appropriate buffer for the acetate buffer (eg. MOPS).