

CM-PACHYMAN (Lot 180303a)

P-CMPAC

02/22

CAS: 69552-83-6

Source: *Poria Coco*

PREPARATION:

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

PROPERTIES OF CM-PACHYMAN:

Sugar Composition:	Glucose = 80
Degree of carboxymethylation (DS):	~ 0.3
Colour:	tan coloured powder
Solubility:	Forms a colloidal suspension in water at 0.5% w/v
Enzyme susceptibility:	Readily hydrolysed by <i>endo</i> -1,3- β -glucanase

METHOD OF DISSOLUTION:

Gradually add 0.5 g of CM-pachyman to 90 mL of vigorously stirring water at 90°C. Continue stirring for approx. 1 h (until the polysaccharide is completely dispersed). 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. Prevent microbial infection by adding a few drops of toluene to the storage bottle.

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).