PACHYMAN (Lot 10301c) AND CURDLAN (Lot 60201d)

P-PACHY **06/19**
CAS: 9037-88-1
P-CURDL
CAS: 54724-00-4

SOURCE:

Pachyman is a 1,3-β-D-glucan derived from the sclerotia of *Poria cocos* (a *Basidiomycetes* sp.). It is reported to contain approx. 100% of 1,3-linked D-glucosyl residues.

Curdlan is produced by *Alcaligenes faecalis* var. myxogenes 10C3K. Essentially all of the linkages are 1,3-β-.

PROPERTIES OF PACHYMAN:

Colour:	Off-white powder.
Purity:	Contains > 98% D-glucose essentially all of which is 1,3-β-linked.
Solubility:	Insoluble in water at room temperature.
Enzyme susceptibility:	Hydrolysed by *endo*-1,3-β-glucanase.

PROPERTIES OF CURDLAN:

Colour:	White powder.
Purity:	Contains > 99% D-glucose essentially all of which is 1,3-β-linked.
Solubility:	Insoluble in water. Can be solubilised in 10% sodium hydroxide
Enzyme susceptibility:	Resistant to hydrolysis by *endo*-1,3-β-glucanase due to water insolubility of the substrate. Dissolution in sodium hydroxide followed by neutralisation with acetic acid yields an amorphous-type substrate which is more readily attacked by β-glucanase.