



## PULLULAN (Borohydride reduced) (Lot 90601a)

**P-PULLBH**

**10/09**

Pullulan is a linear 1,4:1,6- $\alpha$ -D-glucan. The polymer consists mainly of maltotriosyl units linked  $\alpha$ -1,6 to the next maltotriosyl unit. However, the polymer does contain a small percentage of maltotetraosyl units which are irregularly distributed within the polysaccharide.

Borohydride reduced pullulan is prepared by treating pullulan with sodium borohydride to lower the background reducing-sugar colour. This substrate is recommended for the assay of pullulanase using reducing sugar methods.

### **PROPERTIES:**

Borohydride-reduced Pullulan is supplied as a fine white powder which is odourless and tasteless. It dissolves readily in cold water to give a clear, colourless liquid.

<b>Viscosity:</b>	2-3 cP (1%, w/v, 30°C)
<b>Protein:</b>	< 0.30%
<b>Moisture:</b>	~ 3%
<b>Ash:</b>	~ 3%

### **STORAGE CONDITIONS:**

Store dry at room temperature in a well sealed container. Under these conditions, the product is stable for several years.

### **METHOD OF DISSOLUTION:**

Borohydride-reduced pullulan (1.0 gram) is accurately weighed and added to a 120 mL beaker containing 100 mL of water or buffer. A magnetic stirrer bar is added and the mixture is stirred on a magnetic stirrer for about 10 min (i.e. until the solution is clear). Solutions of pullulan can be stored at 4°C for several weeks in a well sealed storage bottle.

Microbial contamination is prevented by adding a few drops of toluene to the storage bottle.