Amylose
Item No. 17664

CAS Registry No.: 9005-82-7
MF: \((C_6H_{10}O_5)_n\)
Supplied as: A solid
Storage: -20°C
Stability: ≥2 years

Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Amylose is supplied as a solid. A stock solution may be made by dissolving the amylose in the solvent of choice. Amylose is soluble in 0.5 M NaOH at a concentration of approximately 1 mg/ml.

Amylose is sparingly soluble in aqueous solutions. To enhance aqueous solubility, dilute the organic solvent solution into aqueous buffers or isotonic saline. If performing biological experiments, ensure the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. We do not recommend storing the aqueous solution for more than one day.

Description

Amylose is a polysaccharide made of α-D-glucose units, bound to each other through α(1→4) glycosidic bonds. It constitutes about 20% of starch, the major storage carbohydrate in plants. It can act as an indicator, turning blue in the presence of iodine, and has also been coupled to magnetic beads for the isolation and purification of maltose-binding protein fusion proteins.  

References