

A110 Agarose

Synonym: N/A
CAS: 9012-36-6
Formula: $(C_{12}H_{14}O_5(OH)_4)_n$
Molecular Wt: Variable

Properties

Form: Powder
Appearance: White to Off-white powder
Application: Plant Tissue Culture Gelling Agent
Solubility: Soluble in Hot Water
Typical Working Concentration: Varies with application, should be determined by end user.
Storage Temp: Room Temperature
Other Notes: Gelling Temperature: >35 °C
Plant Tissue Culture Tested

Application Notes

Agarose is a linear polysaccharide derived from agar that can be used for multiple life science applications, most notably gel electrophoresis. It is composed of alternating residues of D- and L-galactose that are joined by glycosidic linkages which forms an inert matrix that allows for the separation of charged molecules according to size in electrophoresis applications. Agarose has a lower resolution than polyacrylamide gels, but it has a wider range of separation.

References

Johansson BG (1972) Agarose Gel Electrophoresis. Scandinavian Journal of Clinical & Laboratory Investigation, 29:s124, pp. 7-19.

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Revised 3/2013