



## Product Information Sheet

# A105 Agarose, Low Gelling Temperature

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: 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: 26 to 29° 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.