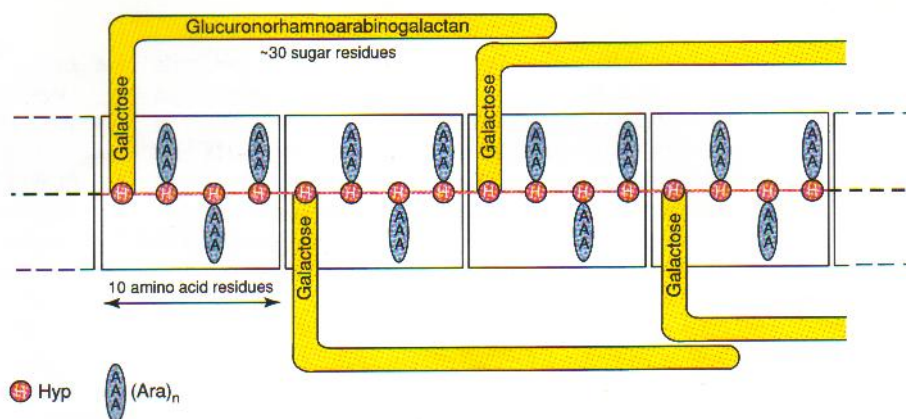


# GUM ARABIC

## AN ARABINOGALACTAN-PROTEIN MIXTURE

FOR RESEARCH PURPOSES ONLY

Cat. No. 100-7



Du, H., Clarke, A.E. & Bacic 1996. Trends in Cell Biology (Vol. 6). 411.

### APPLICATIONS

Gum Arabic AGP is used as a reference standard in many methods involving detection, quantification and analytical analyses of AGP's from plant tissues. It is also the industry standard emulsifying and stabilizing plant gum and is used to form oil in water emulsions with 1-2  $\mu\text{m}$  droplets that are stable over long periods when stored at ambient temperatures.

### ANALYTICAL DATA

Monosaccharide composition (mol %):

**Ara**, (26); **Rha**, (11); **Gal**, (59); **GlcA**, (4)

Linkage composition (mol %)

**Rhap**, term, (9). **Araf**, term, (16); 2-, (1); 3-, (11); 5-, (1); 3,5-, (tr). **Arap** term (1). **Galp**, term, (10); 3-, (2); 6-, (1); 2,4-, (tr); 3,4-, (1); 3,6-, (26); 4,6-, (tr); 3,4,6-, (11). **GlcAp**, term, (2); 4-, (10).

Amino acid Composition (Mol %)

Asx, (7); Glx, (4); Hyp, (26); Ser, (16); Gly, (5); His, (1); Arg, (2); Thr, (12); Ala, (2); Pro, (5); Tyr, (1); Val, (2); Met, (0); Ile, (2); Leu, (2); Phe, (9); Lys, (1).

Total protein 2 (% w/w)

### CHEMICAL PROPERTIES

Gum Arabic is a powder that dissolves readily (to 20mg/mL) in water to give a non-viscous solution of pH 4.5. Slightly negatively charged. Gum Arabic has no absorbance above 250nm.

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## REFERENCES

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## PRODUCT PACKS

Gum Arabic 1gm

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