

Datasheet for LCA – Lentil Lectin (Biotin Conjugated)

LCA – Lentil Lectin (Biotin Conjugated)	
ECA	Catalog Number: MGC-J207 Pkg: 1 mg Product Form: Lyophilized powder (salt-free) Storage: Stable for 1 year at 4°C Applications: Staining and detection of glycoprotein sugar chains

Origin	Lentil (<i>Lens culinaris</i>)
Sugar Specificity	D-Mannose (D-Man), D-Glucose (D-Glc)
Mitogenic Activity	Present
Blood Type Specificity	Non-specific
Structure	Glycoprotein with a molecular weight of 46,000 Composed of four subunits (tetramer, $\alpha_2\beta_2$): 5,710 Da (α) and 17,572 Da (β) Exists as a dimer in aqueous solution Each monomer contains one Ca^{2+} ion Isolectins A and B (LCA-A: pI = 8.15, LCA-B: pI = 8.65) are present; LCA is a mixture of both
Features	Strongly binds to sugar chains with L-fucose (α 1-6 linked) on the GlcNAc residue nearest to asparagine Specificity of LCA-A and LCA-B is considered identical Widely used for fractionation of AFP (α -fetoprotein), a liver cancer marker Clinical applications are under development, especially for diagnostics

References

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