

CERTIFICATE OF ANALYSIS

ECA-Biotin

amsbio

Code Number **AMS.JOM-J206**

Lot Number **60906**

Product Name Lectin from Erythrina cristagalli/ECA-Biotin

Source Coral tree

Product form Lyophilized powder (salt-free)

Concentration – mg/ml

Storage Store refrigerated at 2–8°C.

Stability This material is stable for at least 1 year when stored refrigerated at 2–8°C.

Biotinylated (analyzed by HABA method) **3.9 mol/mol**

Activity Agglutinates a 2% suspension of trypsinized human blood group O erythrocytes. **1.0 µg protein/ml**

Solubility

No.	Buffer	evaluation
A	Phosphate-buffered saline (PBS) (pH 7.2)	○
B	10mM Tris-HCl (pH 7.4)	○
C	10mM Sodium phosphate (pH 7.4)	○
D	10mM Potassium phosphate (pH 7.4)	○
E	10mM Sodium citrate (pH 7.4)	○

<Method> Reconstitute to 0.5mg/ml with each buffer, after centrifuge by compact centrifuge for 2min., look see the precipitation

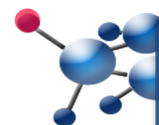
<Symbol> ○ : No precipitation (soluble) △ : Little precipitation (slightly soluble)

× : Increased precipitation (insoluble) ND : Not Done

Procedure/
Remarks

Reconstitute to 1–2 mg/ml with above buffer. Avoid stirring, as this causes precipitation at bottom. The buffer and this material mix naturally. For most applications, we recommend a freshly prepared working solution of 5–20 µg/ml in the above buffer.

Store liquid frozen in aliquots at –20°C. Avoid freeze-thaw cycles. Clarify by centrifugation.



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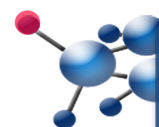
ECA <i>Erythrina cristagalli</i> Agglutinin			
ECA	Code : J106	Pkg. : 5mg	Price : ¥9,000
ECA-Biotin	Code : J206	Pkg. : 1mg	Price : ¥8,000
ECA-Agarose	Code : J306	Pkg. : 2ml	Price : ¥12,000
Origin	<i>Erythrina cristagalli</i> (Cockspur coral tree)		
Sugar Specificity	Galβ1-4GlcNAc- > Lac > GalNAc > Gal ¹⁾		
Oligosaccharide Specificity	LacNAcβ, GalNAcβ, Galβ, Lacβ		
Specific Oligosaccharides ²⁾	 <p>As for Details: Cabos DB No. N/A</p>		
Hemagglutinating Activity	Yes		
Mitogen Activity	Yes ¹⁾		
Blood Specificity	Non-specific		
Molecular Weight	26,231Da		
Amino Acids Residue	239A.A.		
Gene Length	N/A		
Subunit	Homodimer		
Family	Legume lectin family		
Accession No. (UniProtKB)	P83410		
PDB ID (3D Structure)	1GZ9 (Ca,Mn,PO ₄) ³⁾		
Metallic ion	Binds one manganese ion and one calcium ion.		
Glycosylation Site	Asn17, Asn113 (N-linked)		
Cabos DB No.	N/A		

Reference

- 1) Iglesias JL, Us H, Sharon N., *Eur J Biochem.* (1982),123,247
- 2) Itakura Y, Nakamura-Tsuruta S, Kominami J, Sharon N, Kasai K, Hirabayashi J., *J Biochem (Tokyo).* (2007),142,459
- 3) Svensson C, Teneberg S, Nilsson CL, Kjellberg A, Schwarz FP, Sharon N, Krengel U. *J Mol Biol.* (2002), 321, 69

Warning

- For research use only. Not for drug.
- The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.
- Wear safety glasses and gloves to prevent contact skin and eyes.
- In case of contact with skin or eyes, wash immediately with water. Consult a physician if irritation occurs or if there is any indication of an allergic response.
- We recommend that this reagent is handled only by those persons who have been trained in laboratory techniques and that they are used in accordance with the principles of good laboratory practice.
- Some reagents contain natural purified proteins in a buffer containing 0.02% sodium azide. MSDS can be consulted for these items.



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