

Vicia ervilia lectin (VEA)



Features

- Ultrapure quality
- Sugar specificity: α -Mannose > α -Glucose
- Non-specific blood group agglutination
- Lyophilized powder

Product description

Vicia ervilia lectin or agglutinin (VEA) is isolated from bitter vetch seeds and has a molecular weight of 53 kDa. This lectin is blood group non-specific with sugar specificity for α -mannose and, to a lesser extent, α -glucose residues (1). Agglutination is inhibited by mannose, glucose, fructose, methyl mannoside, maltose, melezitose and, α , α' -trehalose (1).

Medicago's VEA lectin is supplied as a yellow lyophilized powder without preservatives. The purity of VEA is determined by SDS-PAGE. The lectin is available in vials containing 50 mg or 10 mg powder and the product is to be used for laboratory work only.

Applications

- Membrane protein studies

Directions for use

The lectin may be reconstituted with 2 ml of deionized water before use, spin the vial gently until full dissolution. The solution may be reconstituted in this buffer to desired working concentration. Aggregation is thought to occur in the presence of high concentrations of 2-mercaptoethanol. In absence of lactose the lectin will polymerize and storage at pH 8.6–8.8 causes precipitation.

Shipping and storage

The product is shipped at -20°C however for over-the-day transport it may be shipped at ambient temperature. The lyophilized powder is stable for more than three years from production date when stored below -20°C . After reconstitution with deionized water, the solution may be stored frozen in working aliquots for up to 12 months.

Specifications

Appearance	Yellow lyophilized powder or flocculate
Source	Weat germ
Molecular weight	53 kDa
Sugar specificity	α -Man > α -Glu
Activity	Non-specific after neuraminidase treatment of the blood cells.
Microorganisms	< 100 CFU/g
Protein content	> 90%, $\text{OD}_{280\text{nm}}$ (ϵ 1.6 = 1 mg/mL)
Identity & Purity	SDS-PAGE
Shelf life	> Three years when stored at -20°C

Tips and hints

Avoid repeated freezing and thawing.

Certifications

Medicago's laboratories and manufacturing site in Uppsala are ISO 9001:2008 and ISO 13485:2003 certified. Each stage of the manufacturing process is controlled and monitored by stringent quality control procedures to guarantee the highest possible quality and lot-to-lot reproducibility.



Ordering information

Article no.	Product name	Pack size
A05-0114-50	<i>Vicia ervilia</i> lectin	50 mg
A05-0114-10	<i>Vicia ervilia</i> lectin	10 mg