

ABSOLUTE LECTINS

05-0114 Vicia ervilia lectin (VEA)



Benefits

- Ultrapure quality
- Sugar specificity: α -Mannose > α -Glucose (1)
- Non-specific blood group agglutination (1)
- 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.

Tips and hints

Avoid repeated freezing and thawing.

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 | Vicia ervilia lectin (VEA) (05-0114) |
|-------------------|---|
| Appearance | Yellow lyophilized powder or flocculate |
| Source | Weat germ |
| Molecular weight | 53 kDa |
| Sugar specificity | α -Man > α -Glu |
| Activity | Agglutinates erythrocytes |
| Microorganisms | ≤ 100 CFU/g |
| Shelf life | \geq Three years when stored at -20°C |

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Certifications

Medicago's laboratories and manufacturing site in Uppsala are ISO 9001:2015 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 |
|--------------|-----------------------------|-----------|
| 05-0114-10mg | <i>Vicia ervilia lectin</i> | 10 mg |
| 05-0114-50mg | <i>Vicia ervilia lectin</i> | 50 mg |
| 05-0114-1g | <i>Vicia ervilia lectin</i> | 1 g |

References

(1) Liener I. E., Sharon N., Goldstein I. J., (1986) *The Lectins – Properties, Functions and Applications in Biology and Medicine.*