

# ABSOLUTE LECTINS

## 05-0114 *Vicia ervilia* lectin (VEA)



### Benefits

- Ultrapure quality
- Sugar specificity:  $\alpha$ -Mannose >  $\alpha$ -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  $\alpha$ -mannose and, to a lesser extent,  $\alpha$ -glucose residues (1). Agglutination is inhibited by mannose, glucose, fructose, methyl mannoside, maltose, melezitose and,  $\alpha$ ,  $\alpha'$ -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  $-20^{\circ}\text{C}$  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  $-20^{\circ}\text{C}$ . After reconstitution with deionized water, the solution may be stored frozen in working aliquots for up to 12 months.

Specifications	<i>Vicia ervilia</i> lectin (VEA) (05-0114)
Appearance	Yellow lyophilized powder or flocculate
Source	Weat germ
Molecular weight	53 kDa
Sugar specificity	$\alpha$ -Man > $\alpha$ -Glu
Activity	Agglutinates erythrocytes
Microorganisms	$\leq 100$ CFU/g
Shelf life	$\geq$ Three years when stored at $-20^{\circ}\text{C}$



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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</i> lectin	10 mg
05-0114-50mg	<i>Vicia ervilia</i> lectin	50 mg
05-0114-1g	<i>Vicia ervilia</i> lectin	1 g

### References

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