



## Crotalaria juncea lectin



### Features

- Ultrapure quality
- Non-specific blood group activity
- Sugar specificity: Gal > GalNAc
- Phytohaemagglutinin
- Lyophilized powder

### Product description

*Crotalaria juncea* lectin is isolated from Sunn hemp seeds and purified by affinity chromatography. The lectin has a molecular weight of 124 kDa and is composed of four identical polypeptide chains of 31 kDa. The lectin has non-specific blood group activity (1). It displays specificity toward  $\beta$ -galactosides and interacts with serum glycoproteins, cytochrome b5 and virus surface glycoproteins such as BVDV, influenza and bovine diarrhea (1).

Medicago's *Crotalaria juncea* lectin is supplied as a white to yellowish-white lyophilized powder. The purity is determined by SDS- PAGE, which generates one single band at 31 kDa corresponding to the four identical polypeptide chains. The lectin is available in vials containing 50 mg or 10 mg powder. The product is to be used for laboratory work only.

### Applications

- Studies of virus surface glycoproteins
- Purifying bovine diarrhea virus when immobilized on an agarose gel

### Specifications

Appearance	White to yellowish lyophilized powder or flocculate
Source	Sunn Hemp seeds
Molecular weight	124 kDa
Sugar specificity	Gal > GalNAc
Activity	Blood group non-specific
Microorganisms	< 100 CFU/g
Protein content	> 90%
Identity	SDS-PAGE, one band at 31 kDa
Shelf life	> Three years when stored at -20°C

### 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.

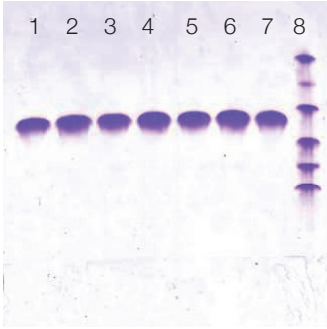
### Tips and hints

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.





**Figure 1:** SDS-PAGE *Crotalaria juncea* lectin.  
Lane 1 to 7: Lot specific lectin.  
Lane 8: MW marker

#### Ordering information

Article no.	Product name	Pack size
05-0105-50	<i>Crotalaria juncea</i> lectin	50 mg
05-0105-10	<i>Crotalaria juncea</i> lectin	10 mg