

ABSOLUTE LECTINS

05-0105 *Crotalaria juncea* lectin



Benefits

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

Product description

Crotalaria juncea lectin is isolated from Sunnhemp 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 β -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, 10 mg powder or 1 g.

The product is to be used for laboratory work only .

Applications

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

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.

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 | <i>Crotalaria juncea</i> lectin (05-0105) |
|-------------------|---|
| 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 |
| 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 |
|--------------|---------------------------------|-----------|
| 05-0105-10mg | <i>Crotalaria juncea</i> lectin | 10 mg |
| 05-0105-50mg | <i>Crotalaria juncea</i> lectin | 50 mg |
| 05-0105-1g | <i>Crotalaria juncea</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.