



# Wheat Germ Agglutinin (WGA), Agarose bound

## AL-1023

Product Images



## Short Description

---

Agarose bound *Wheat germ agglutinin* (WGA) is prepared using 4% agarose beads. The receptor sugar for WGA is *N*-acetylglucosamine, with preferential binding to dimers and trimers of this sugar. WGA can bind oligosaccharides containing terminal *N*-acetylglucosamine or chitobiose, structures which are common to many serum and membrane glycoproteins.

### Features:

- Bead diameter ranges in size from 45-165 microns
- Matrix is stable in solutions at pH 3-11 as well as many organic solvents
- Immobilized lectins are prepared using affinity purified lectins
- Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
- Conjugated proteins are not leached off the beads by Tris or other routinely used buffers
- No residual charges present after conjugation. This minimizes non-specific binding to the matrix
- Product supplied as a 1:1 suspension in buffer

## Additional Information

|                     |   |
|---------------------|---|
| Unit Size           | 2 ml, 5 ml, 10 ml   |
| Applications        | Glycobiology, Affinity Chromatography   |
| Recommended Storage | 2-8 °C DO NOT FREEZE  |
| Solution            | 10 mM HEPES, pH 7.5, 0.15 M NaCl, 20 mM GlcNAc, 0.08% sodium azide  |
| Recommended Usage   | <p>Wash gel thoroughly with buffer before use to remove sugar added to stabilize the lectin. Recommended product for eluting glycoconjugates bound to this agarose-lectin: Glycoprotein Eluting solution, Cat. No. ES-5100. Alternately, 0.5 M N-Acetyl-D-Glucosamine or Chitin Hydrolysate (Cat. No. SP-0090) can be used. For those glycoconjugates having very high affinity for WGA, it may be necessary to lower the pH of the eluting sugar solution to pH 3.0 with acetic acid. After use, wash the gel with several column volumes of buffered saline, then resuspend gel in buffered saline containing 0.08% sodium azide for storage.</p> |
| Matrix Conjugate    | Lectins   |
| Sugar Specificity   | N-Acetylglucosamine   |
| Conjugate           | Agarose   |

### Wheat Germ Agglutinin (WGA), Agarose bound

#### Features:

- Matrix is heat stable, cross-linked 4% agarose beads with a molecular exclusion of about  $2 \times 10^7$  daltons
- Bead diameter ranges in size from 45-165 microns
- Matrix is stable in solutions at pH 3-11 as well as many organic solvents
- Immobilized lectins are prepared using affinity purified lectins
- Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
- Hydrophilic spacer arm is inserted between the lectin and the matrix
- Conjugated proteins are not leached off the beads by Tris or other routinely used buffers
- No residual charges present after conjugation. This minimizes non-specific binding to the matrix
- Product supplied as a 1:1 suspension in buffer
- 7 mg lectin/ml gel
- Inhibiting/Eluting Sugar: Chitin Hydrolysate; or 500 mM *N*-acetylglucosamine with salt and/or acid elution generally required; or Glycoprotein Eluting Solution (ES-5100)



## Wheat Germ Agglutinin (WGA), Agarose bound

### Features:

- Matrix is heat stable, cross-linked 4% agarose beads with a molecular exclusion of about  $2 \times 10^7$  daltons
- Bead diameter ranges in size from 45-165 microns
- Matrix is stable in solutions at pH 3-11 as well as many organic solvents
- Immobilized lectins are prepared using affinity purified lectins
- Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
- Hydrophilic spacer arm is inserted between the lectin and the matrix
- Conjugated proteins are not leached off the beads by Tris or other routinely used buffers
- No residual charges present after conjugation. This minimizes non-specific binding to the matrix
- Product supplied as a 1:1 suspension in buffer
- 7 mg lectin/ml gel
- Inhibiting/Eluting Sugar: Chitin Hydrolysate; or 500 mM *N*-acetylglucosamine with salt and/or acid elution generally required; or Glycoprotein Eluting Solution (ES-5100)



## Wheat Germ Agglutinin (WGA), Agarose bound

### Features:

- Matrix is heat stable, cross-linked 4% agarose beads with a molecular exclusion of about  $2 \times 10^7$  daltons
- Bead diameter ranges in size from 45-165 microns
- Matrix is stable in solutions at pH 3-11 as well as many organic solvents
- Immobilized lectins are prepared using affinity purified lectins
- Covalent attachment preserves lectin activity and minimizes conformational changes that might result in nonspecific or hydrophobic interactions
- Hydrophilic spacer arm is inserted between the lectin and the matrix
- Conjugated proteins are not leached off the beads by Tris or other routinely used buffers
- No residual charges present after conjugation. This minimizes non-specific binding to the matrix
- Product supplied as a 1:1 suspension in buffer
- 7 mg lectin/ml gel
- Inhibiting/Eluting Sugar: Chitin Hydrolysate; or 500 mM *N*-acetylglucosamine with salt and/or acid elution generally required; or Glycoprotein Eluting Solution (ES-5100)

