

## Con A Agarose

**Cat. No.** Con A-001A    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Con A agarose is an affinity medium with concanavalin A (Con A) coupled to agarose 4B by the cyanogen bromide method, which is used for chromatography, separation and purification of glycoproteins, polysaccharides, and glycolipids.
<b>Cat.no</b>	Con A-001A
<b>Characteristics</b>	ConA binds specifically $\alpha$ -D-mannosyl and $\alpha$ -D-glucosyl residues in terminal position of ramified structures from Glycans. It has 4 binding sites, corresponding to the 4 sub-units. The molecular weight is 104-112KDa and the isoelectric point (pI) is in the range of 4.5-5.5. The binding sugar requires the presence of C-3, C-4 and C-5 hydroxyl groups for reaction with Con A. Con A coupled to agarose is routinely used for separation and purification of glycoproteins, polysaccharides and glycolipids.
<b>Size</b>	5 mL, 100 mL
<b>Matrix</b>	4% agarose
<b>Functional group</b>	Con A
<b>Average particle size</b>	90 $\mu$ m
<b>Ligand</b>	Con A
<b>Ligand concentration</b>	10 to 15 mg Con A/ml medium

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<b>Dynamic binding capacity</b>	20-45 mg porcine thyroglobulin/ml medium
<b>Recommended flow rate</b>	75 cm/h
<b>Recommended column height</b>	5-20cm
<b>Chemical stability</b>	Stable in all commonly used aqueous buffers. Chelating agents such as EDTA, 8 M urea, or solutions having pH below 3 should be avoided as these conditions result in removal of manganese from the lectin with loss of activity as a result.
<b>pH working range</b>	4-9
<b>Warning</b>	Avoid using Chelating agents such as EDTA, 8 M urea or solutions having a pH below 3 should be avoided as these conditions results in removal of manganese from the lectin with loss of activity as a result.

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