



# HISPANAGAR

Oceans of Experience

## Activated Agarose Beads

Agarose is a very inert polysaccharide that forms aqueous gels. Due to its chemical structure (*can be activated easily*) it may be prepared to bind biomolecules in a **reversible** or **irreversible** way.

### I. Chelate Agarose Beads

Resins for purification of biomolecules by Affinity Chromatography

Hispanagar offers different types of activated Matrix:

- Resins with different grade of activation that enable you to obtain a *better compromise between the binding capacity and purification grade.*

- Resins "*ready to use*" already charged with cation (Cu, Ni, Zn or Co).

### II. Glyoxal Agarose Beads Aminoethyl Agarose Beads

Resins for immobilization of biomolecules.

Hispanagar offers different types of activated matrix:

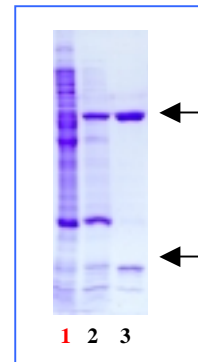
Resins with different agarose concentration (different pore size).

- Resins with different active groups that permit binding with different enzyme aminoacids: **Glyoxal Resins** (which bind through lysine amino groups) and **Aminoethyl Resins** (which bind through aminoacid acids).

1. Fraction obtained after purification with "Company A resin" (charged previously with Ni<sup>2+</sup>)

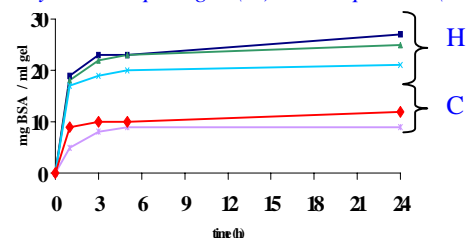
2. Fraction obtained after purification with High density IDA Agarose Nickel Charged (Hispanagar) (6 BCL-QHNi)

3. Fraction obtained after purification with Low density IDA Agarose Nickel Charged (Hispanagar) (6 BCL-QLNi)



TAILOR MADE PRODUCT *iiii*  
CUSTOM MADE SOLUTIONS *iiii*

Glyoxal: Hispanagar (H) vs Competitors (C)



Hispanagar higher binding capacity and much faster kinetic binding (BSA)

### Ordering Information:

Purification Products				CHELATE AGAROSE BEADS				
<i>Bead</i> (geometry, size)	Spherical, Standard : 40-180 µm (approx.)							
<b>Cross-linked</b>	Yes							
<b>Autoclavable</b>	121°, 30'							
<b>Agarose %</b>	6%							
<b>Activating Agent</b>	Epichlorohydrin							
<b>Ligand</b>	Imminodiacetic Acid (IDA)							
<b>IDA Matrix</b>	Stable in strong acid and basic solutions							
<b>Product Name</b>	<b>High Density IDA-agarose 6 BCL</b>				<b>Low Density IDA-agarose 6 BCL</b>			
	Metal Free	Ni-Charged	Zn-Charged	Co-Charged	Metal Free	Cu-Charged	Ni-Charged	Zn-Charged
<b>Binding/Loading Capacity</b> (µmol Me <sup>2+</sup> / ml gel)	20 - 40				5 - 20.			
<b>Cat. Nº</b>	6BCL-QH-X*	6BCL-QHNI-X*	6BCL-QHZn-X*	6 BCL-QHCo-X*	6BCL-QL-X*	6BCL-QLCu-X*	6BCL-QLNi-X*	6BCL-QLZn-X*
<b>Storage Temp.</b>	2-8°C							
<b>Antimicrobial Agent</b>	20 % Ethanol							

**Immobilization Products****GLYOXAL AGAROSE BEADS**

<b>Bead</b> (geometry, size) <b>Cross-linked</b> <b>Autoclavable</b> <b>Matrix Active Groups</b>	Spherical, Standard: 40-180 µm (approx.)  Yes, 121°, 30'  Agarose with some diols oxidized to aldehydes					
<b>Product Name</b>	<b>Very High Density Glyoxal Agarose</b>		<b>High Density Glyoxal Agarose</b>		<b>Low Density Glyoxal Agarose</b>	
<b>Agarose %</b>	<b>4 BCL</b>	<b>6 BCL</b>	<b>4 BCL</b>	<b>6 BCL</b>	<b>4 BCL</b>	<b>6 BCL</b>
<b>Activation Degree</b> (µmol Glyoxyl / ml gel) approx.	-	80-100	40-60	40-60	15-25	15-25
<b>Binding Capacity</b> (mg BSA/ml gel) approx.	-	25-30	15-20	20-25	5-10	5-10
<b>Cat. Nº.</b>	-	6BCL-GH1-X*	4 BCL-GH1-X*	6BCL-GM3-X*	4 BCL-GL0-X*	6BCL-GL0-X*
<b>Storage Temp.</b>	2-8 °C					
<b>Antimicrobial Agent</b>	Suspension in 0.5M NaCl containing 0.02 % thimerosal					

**Immobilization Products****AMINOETHYL AGAROSE BEADS**

<b>Bead</b> (geometry, size) <b>Cross-linked</b> <b>Autoclavable</b> <b>Matrix Active Groups</b>	Spherical, Standard: 40-180 µm (approx.)  Yes 121°, 30'  Amino Groups	
<b>Product Name</b>	<b>Low Density Aminoethyl Agarose 6 BCL</b>	<b>Very Low Density Aminoethyl Agarose 4BCL</b>
<b>Agarose %</b>	6	4
<b>Activation Degree</b> (µmol aminoethyl / ml gel) approx.	15-25	3-6
<b>Binding Capacity</b> (mg BSA/ml gel) approx.	2-6	2-4
<b>Cat. Nº.</b>	6BCL-AL0-X*	4 BCL-AVL4-X*
<b>Storage Temp.</b>	2-8°C	
<b>Antimicrobial Agent</b>	Suspension in 0.5M NaCl containing 0.02 % thimerosal	

*For research use only. Not for use in diagnostic or therapeutic procedure*

*X: Product quantity.*



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