

CERTIFICATE OF ANALYSIS

WGA-Agarose

Code Number	AMS.JOM-J320-5ML	
Lot Number	32309A	
Product Name	Lectin from Triticum vulgare(wheat germ)/WGA-Agarose 5mL	
Source	Wheat germ	
Bead	Sepharose 4B (GE)	
Linkage	Reductive amination	
Product form	Suspension in buffer containing protective sugar (PBS + 0.02% Azide) ※PBS: Phosphate-buffered saline, pH 7.2	
Protective sugar	0.1M N-Acetyl-D-glucosamine	
Storage	Store refrigerated at 2-8°C. (Do not freeze!)	
Stability	This material is stable for at least 1 year when stored refrigerated at 2-8°C.	
Elution buffer	N-Acetyl-D-glucosamine (0.2M), Acid (pH5)	
Immobilized lectin	Analyzed by survival (Abs. 280 nm) 5.2 mg/ml of settled gel	
Binding capacity	Measured by frontal analysis	
	Fetuin (Fetal Calf Serum) (MW=48,000)	0.50 mg/ml
	p-Nitrophenyl-2-acetamido-2-deoxy-β-D-Glucopyranoside	434 nmol/ml
Procedure/Remarks		

1. pH : Usable at pH 5-8 (return to pH 7-8 after use)
2. Temperature : 4°C to room temperature (lectin affinity tends to increase at lower temperatures)
3. Surfactants : The effect on lectin will vary depending on the type and concentration. Always wash well with a surfactant-free buffer after use.
4. Other : Do not use organic solvents. Do not use a magnetic stirrer to stir, as this can cause gel to break. Wash gel thoroughly with buffer before use to remove sugar added to stabilize the lectin.

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WGA <i>Triticum vulgare</i> Agglutinin		 コスモ・バイオ株式会社	
WGA		mg :	5mg
WGA-Biotin		Pkg. :	1mg
WGA-HRP		Pkg. :	1mg
WGA-FITC		Pkg. :	1mg
WGA-Agarose		Pkg. :	2ml
		Pkg. :	5ml
WGA-HPLC Column		Pkg. :	1piece
Origin	<i>Triticum Vulgare</i> (wheat germ)		
Sugar Specificity	D-GlcNAc ^{1h,2i} , NeuAc ^{3j}		
Oligosaccharide Specificity ^{3j}	GlcNAcβ1-4GlcNAcβ1-4GlcNAc GlcNAcβ1-4GlcNAc		
Specific Oligosaccharides			As for Details: Cabos DB No. N/A
Hemagglutinating Activity	Yes		
Mitogen Activity	No		
Blood Specificity	Non-specific		
Cabos DB No.	N/A		
WGA Iso-lectin WGA1, Isolectin A, WGA-A			
Molecular Weight	21,239Da [This is the MW of the unprocessed precursor]		
Amino Acids Residue	212A.A. [This is the length of the unprocessed precursor]		
Gene length	mRNA: 998bp ⁴ⁱ		
Subunit	homodimer		
Family	Chitin-binding type-1 domain		
Accession No. (UniProtKB)	P10968		
PDB ID (3D Structure)	1WGC (3'Sialylactose) ^{3j} , 2CWG (SialylT-antigen) ⁵ⁱ 7WGA ^{3j}		
Metallic ion	None		
Glycosylation Site	None		
Cabos DB No.	N/A		

Warning

- For research use only. Not for drug.
- The aluminum seals have sharp edges and the vial itself may have cracks which can cause lacerations. Use caution when opening the vial.
- Wear safety glasses and gloves to prevent contact skin and eyes.
- In case of contact with skin or eyes, wash immediately with water. Consult a physician if irritation occurs or if there is any indication of an allergic response.
- We recommend that this reagent is handled only by those persons who have been trained in laboratory techniques and that they are used in accordance with the principles of good laboratory practice.
- Some reagents contain natural purified proteins in a buffer containing 0.02% sodium azide. MSDS can be consulted for these items.