

Art no: 05-0134

Lot no: 302408

# CERTIFICATE OF ANALYSIS




Product name:	<b>Aleuria aurantia Lectin (AaL)</b>
Production date:	2024-07
Date of release:	2024-07-25
QC release date:	2024-07-23
Stability:	2029-07
Form:	Lyophilized
Origin:	Recombinat, E-coli

Analysis	Specification	Result
Appearance	White powder or flocculate by visual inspection resulting in a clear solution.	Fulfills requirement
Solubility	Clear solution at 1 mg/ml in PBS (a few insoluble particles might be found)	Fulfills requirement
Electrophoresis	One major band in SDS-electrophoresis, comparable to reference sample.	Fulfills requirement
Activity Haemagglutination/inhibition	Agglutinates human erythrocytes, blood group 0 at $\geq 5 \mu\text{g/ml}$	Fulfills requirement
Assay (%)	$\geq 75\%$ (amino acid analysis)	Fulfills requirement

Appendixes: SDS PAGE analysis AaL lektin lot 302408

The above material has met all quality specifications and has been reviewed by a quality representative.

  
Quality Assurance, Robert Bergman

2024-07-25  
Date

## Appendix 1

### SDS PAGE analysis *Aleuria aurantia* (AaL lectin) lot 302408

Electrophoresis with Pharmacia Phast system (Amersham Biosciences)

#### Material

Phast gel gradient 8 – 25  
Phast gel SDS buffer strips

#### Method

The proteins were dissolved at 4 mg/ml in loading buffer (10 mM TRIS/HCL, 1 mM EDTA, 2.5 % SDS, 50 mM DTT).

LMW marker was from, LMW SDS calibration kit for SDS electrophoresis (GE Healthcare).

MW of proteins included in LMW (14 000 Da - 97 000 Da) marker:

Phosphorylase b	97 000
Albumin	66 000
Ovalbumin	45 000
Carbonic anhydrase	30 000
Trypsin inhibitor	20 100
$\alpha$ -Lactalbumin	14 400

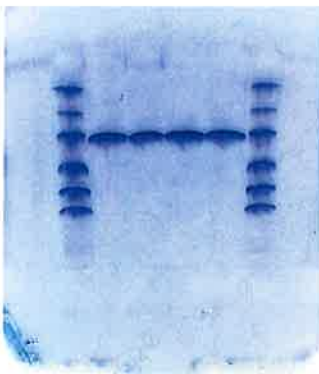
The samples were boiled for 5 min. and approx. 1  $\mu$ l was applied on Phast gel (gradient 8 – 25).  
Program; 300v, 7.5 mA, 2.0 W, 80 Vh.

The gels were stained with Coomassie blue for 30 min and then destained.

*This lectin is a dimer of two identical subunits of about 36,000 daltons each with an isoelectric point of about pH 9.*

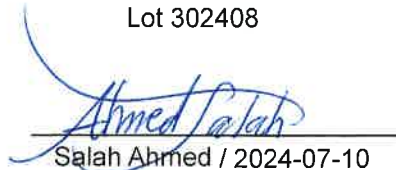
#### Result

1 2 3 4 5 6 7 8



<b>Lane 1,8</b>	Empty	
<b>Lane 2,7</b>	LMW standard	lot:302208
<b>Lane 3-6</b>	AaL prove	Lot 302408

Analysis performed by

  
Salah Ahmed / 2024-07-10