Art no: 05-0134

Lot no: 263116

CERTIFICATE OF ANALYSIS

Product name:	***Aleuria aurantia* Lectin (AaL)**
Production date:	2020-07
Date of release:	2021-04-16
QC release date:	2021-04-15
Stability:	2025-08
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 ≥ 5 µg/ml	Fulfills requirement
Assay (%)	≥ 80% (amino acid analysis)	92%

Appendixes: SDS PAGE analysis AaL lectin lot 263116

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

Quality Assurance, Zinab Akbari

2023-02-10

Date

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Appendix 1
SDS PAGE analysis *Aleuria aurantia* (AaL lectin) lot 263116

Electrophoresis with Pharmacia Phast system (Amersham Biosciences)

Material

Phast gel gradient 8 – 25
Phast gel SDS buffer strips

Method

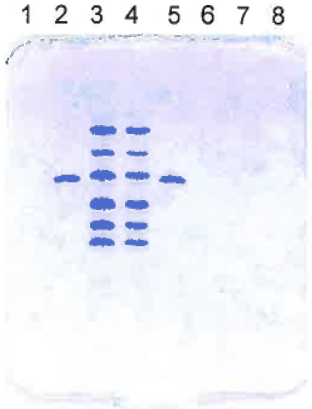
The proteins were dissolved at 4 mg/ml in loading buffer (10 mM TRIS/HCL, 1 mM EDTA, 2.5 % SDS, 50 mM DTT).
LMW marker was from, LMW SDS calibration kit for SDS electrophoresis (GE Healthcare).
MW of proteins included in LMW (14 000 Da - 97 000 Da) marker:

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

The samples were boiled for 5 min. and approx. 1 µl 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



Lane 1, 6-8 Empty
Lane 3-4 LMW standard
Lane 2, 5 Lot ~~234820~~ 263116

Analysis performed by

Beatrice Eriksson 2020-08-10

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