

Art no: 05-0132

Lot no: 271003

## CERTIFICATE OF ANALYSIS



Product name:	<b>Phaseolus Vulgaris lectin L, PHA-L</b>
Production date:	2021-03
Date of release:	2021-04-30
Stability:	2024-03
Source:	<i>Phaseolus Vulgaris</i> beans (Red Kidney Beans)
Form:	Lyophilized
Storage:	-18°C (may be shipped at ambient temp)

Analysis	Specification	Result
Appearance	White powder or flocculate by visual inspection resulting in a clear solution.	Fulfills requirement
Assay (%)	> 85 % by OD <sub>280nm</sub> ( $\epsilon$ 1mg/ml = 0,96) in PBS pH 7.4 after filtration through 0.2 $\mu$ m acetate membrane.	86.6 %, fulfills requirement
Electrophoresis	One major band in SDS-electrophoresis at 31 kDa	Fulfills requirement, see appendix 1.
Bacterial burden	Less than 10 <sup>2</sup> CFU per 1 g of solid substance.	Fulfills requirement
Haemagglutination	No agglutination of a 2 % human erythrocyte (group 0) suspension at lectin concentration $\leq$ 250 $\mu$ g/ml	Fulfills requirement.

Appendixes:  
1. SDS-PAGE

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

A handwritten signature in blue ink, appearing to read "Max Johansson", written over a horizontal line.

Quality Assurance, Max Johansson

2022-03-29

Date

**Bilaga 2****SDS PAGE, analysis of PHA-L lot 271003**

Electrophoresis with Pharmacia Phastsystem (Amersham Biosciencis).

**Material**

Phast gel gradient 8 – 25

Phast gel SDS buffer strips

**Method**

Loading buffer (10 mM TRIS/HCL, 1 mM EDTA, 2.5 % SDS, 1 % DTT) was added to the protein solution (2.8 mg/ml), dilution factor 2:5.

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.

**Result**

1 2 3 4 5 6 7 8



Lane 1. –

Lane 2, 7 LMW mol marker

Lane 3, 4 PHA-L lot 271003 1.0 mg/ml (Prov)

Lane 5, 6 PHA-L lot 150205 1.0 mg/ml (Refrence)

Lane 8. –

Analysis performed by

  
Salah Ahmed, 2021-04-27