CERTIFICATE OF ANALYSIS

Lot no: 233425



Product name:

Pisum Sativum Lectin (PSA)

Production date:

2017-10

(Retested 2023-07-28*)

Date of release:

2023-09-04

Stability:

2028-07

Source:

Pisum Sativum (Yellow peas)

Form:

Lyophilized

Storage:

-20°C

Analysis	Specification	Result
Appearance	White to cream colored powder or flocculate	Fulfills requirement
Assay (%)	≥ 85% (A ₂₈₀), ε 1mg/ml = 1.6	85.4%, fulfills requirement
Electrophoresis	Two major bands in SDS-electrophoresis, comparable to reference sample.	Fulfills requirement, see appendix 1.
Activity/haemagglutination*	Agglutinates a 2% suspension of human blood group 0 erytrocytes at lectin conc. ≤ 10 µg/ml. The agglutination is inhibited by 60 mM methylmannoside (end conc. 20 mM) at a titer minimum 4 steps lower than that of control. Control must have a titer of minimum 32.	5.2 µg/ml, fulfills requirement,

Appendixes:	
Appendixos.	
1. SDS-PAGE	
T. ODO T AOL	

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

Quality Assurance, Sebastian Määttä

2023-09-04

Date



SDS PAGE, analysis of PSA lot 233425

Electrophoresis with Pharmacia Phastsystem (Amersham Biosciencis).

Material

Phast gel gradient 8 – 25 Phast gel SDS buffer strips

Method

The protein was diluted 1:1 in loading buffer (10 mM TRIS/HCL, 1 mM EDTA, 2.5 % SDS, 50mM 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:

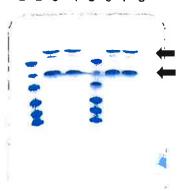
Phosphorylase b 97 000
Albumin 66 000
Ovalbumin 45 000
Carbonic anhydrase 30 000
Trypsin inhibitor 20 100 α -Lactalbumin 14 400

The samples were boiled for 5 min. and approx. $0.5 \mu l$ 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. LMW mol marker

Lane 3. PSA lot 233425 2.0 mg/ml **Lane 4.** PSA lot 233425 2.0 mg/ml

Lane 5. LMW mol marker

Lane 6. PSA lot 181507 2.0 mg/ml **Lane 7.** PSA lot 181507 2.0 mg/ml

Lane 8. --

Analysis performed by

Doreen Heinrich, 2017-11-09