

Art no: 05-0131

CERTIFICATE OF ANALYSIS

Lot no: 301903



Intertek

Product name:	Lectin PHA-E, Erythroagglutinin
Production date:	2024-05
Date of release:	2024-06-05
Stability:	2029-05
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
Solubility	Dissolves in PBS buffer pH 7.4 within 5 minutes.	Fulfills requirement
Electrophoresis	One major band in SDS-electrophoresis, comparable to reference sample.	Fulfills requirement, see appendix 1.
Haemagglutination	Agglutinates human erythrocytes blood group 0 at $\leq 8 \mu\text{g/ml}$	1.0 $\mu\text{g/ml}$, fulfills requirement, see appendix 2

Appendixes: 1. SDS-PAGE 2. Haemagglutination
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The above material has met all quality specifications and has been reviewed by a quality representative.


Quality Assurance, Åsa Engström

2024-06-05
Date

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Appendix 1. SDS-PAGE

Bilaga 2, tillhör M-00230

SDS PAGE, analysis of PHA-E, lot: 301903

Electrophoresis with Pharmacia Phastsystem (Amersham Biosciencis).

Material

Phast gel gradient 8 – 25
Phast gel SDS buffer strips

Metod

The protein was diluted to 2 mg/ml 1:1 in 0.9 % NaCl and loading buffer (10.0 mM TRIS/HCL, 1.1 mM EDTA, 2.7 % 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 μ l was applied on Phast gel (gradient 8 – 25).

Program; 300v, 7.5 mA, 2.0 Wh, 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, 8	Tom	
Lane 2, 7	LMW mol marker	
Lane 3, 4	PHA-E Refrens	lot 272500
Lane 5, 6	PHA-E Prov	lot 301903

Analysis performed by

Cynthia Hassinen

Cynthia Hassinen, 2024-05-28

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Appendix 2. Haemagglutination

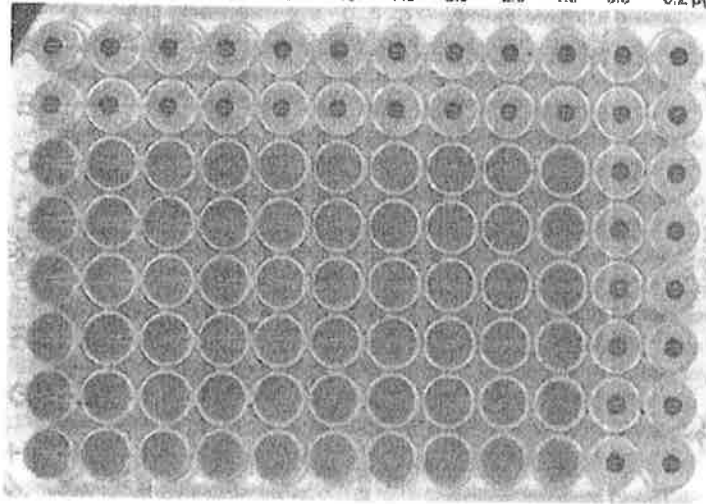
Bilaga 1, tillhör M-00030

Haemagglutination (human blood group 0)

Lectin from *Phaseolus vulgaris* (red kidney bean),

Phytohemagglutinin (PHA)-E art nr. 05-0131 lot 301903

Column	1	2	3	4	5	6	7	8	9	10	11	12
Titer	0	2	4	8	16	32	64	128	256	512	1024	2048
Conc	800	250	125	63	31	16	7.6	3.8	2.0	1.0	0.5	0.2 µg/mL



Row A,B Blank
Row C-H PHA-P lot 301903

Date/Sign: *Salah Ahmed* 2024-06-28
Salah Ahmed / 2024-06-28