


CERTIFICATE OF ANALYSIS

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| Product name: | Phaseolus Vulgaris lectin L (PHA-L) Phytohemagglutinin |
| Production date: | 2023-06 |
| Date of release: | 2025-07-30 |
| Retested date: | 2025-07-16* |
| Expiration date: | 2027-01 |
| Source: | <i>Phaseolus Vulgaris</i> (Red kidney beans) |
| Form: | Lyophilized |
| Storage: | -20°C |

| Analysis | Specification | Result |
|--------------------|--|---------------------------------------|
| Appearance | White powder or flocculate | Fulfills requirement |
| Assay (%) | ≥ 85 % (A_{280} absorbance coefficient $A_{1mg/ml}$ = 1.14) in PBS solution | Fulfills requirement |
| Electrophoresis* | One major band at 31 kDa (SDS-PAGE) | Fulfills requirement, see appendix 1. |
| Bacterial burden | < 100 CFU/g | Fulfills requirement |
| Haemagglutination* | Does not agglutinate human blood group 0 erythrocytes at ≤ 250 µg/ml in 0.9 % NaCl after 2 h at 25°C | Fulfills requirement Retested |

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| Appendixes: |
| 1. SDS-PAGE |

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


Quality Assurance, Mikael Lundgren

2026-04-30
Date