**PrymaLab**
PRYMALAB ANALYTICAL · IN-HOUSE LABORATORY
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CERTIFICATE NO.
**PL-26-00163**
VERIFICATION KEY
**HEYA6D7J**
Scan or enter both at prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE

# Cerebrolysin 120 mg Nasal Spray

Lot PL-2610-041 · Solution · Label claim

**TESTED IN-HOUSE BY PRYMALAB**
In-house analytical result, not an independent third-party test

| LOT / BATCH NUMBER | DATE MADE | DATE OF ANALYSIS | DATE ISSUED |
|---|---|---|---|
| PL-2610-041 | 2026-10-01 | 2026-10-02 | 2026-10-09 |
| **RETEST / EXPIRY** | **UNITS IN LOT / SAMPLED** | **STORAGE** | **CERTIFICATE TYPE** |
| 2028-10-01 | 278 / 2 | — | Lot COA, 2 pages |

| COMPOUND | CAS NUMBER | MOLECULAR FORMULA | THEORETICAL MASS (AVG.) |
|---|---|---|---|
| **Cerebrolysin**<br>Porcine brain peptide hydrolysate; a peptide preparation, not a single compound | 12656-61-0 | Not applicable (mixture) | n/a (complex peptide mixture) |

STRUCTURE
porcine brain peptide complex <10 kDa

PURITY · RP-HPLC, AREA %
**99.40%**
Specification ≥ 99.0 % • area % of the main RP-HPLC band

IDENTITY · PEPTIDE MAP
**Match**
LC-MS peptide map matches the reference

OVERALL CONCLUSION
**PASS**
Meets every specification for the tests performed

| TEST | METHOD | SPECIFICATION | RESULT | CONCLUSION |
|---|---|---|---|---|
| **Identity (peptide map)** | LC-MS peptide map | Matches reference | Matches reference | **PASS** |
| **Purity (main band)** | RP-HPLC, UV 214 nm, area % | ≥ 99.0 % | 99.40 % | **PASS** |
| **Water content** | Karl Fischer | ≤ 5.0 % | 3.18 % | **PASS** |
| **Bacterial endotoxin** | LAL, kinetic | ≤ 5.0 EU/mg | 0.203 EU/mg | **PASS** |
| **Aerobic count (TAMC)** | USP <61> | < 10 CFU/mL | < 10 CFU/mL | **PASS** |
| **Yeast &mold (TYMC)** | USP <61> | < 10 CFU/mL | < 10 CFU/mL | **PASS** |
| **E. coli** | USP <62> | Absent | Absent | **PASS** |

## 1 HPLC CHROMATOGRAM

**Data file:** PL-2610-041-HPLC.raw · Column C18, 150 × 4.6 mm · UV 214 nm

Complex peptide mixture: main-band purity reported as area %; see page 2.

Main-band purity as recorded in the lot-release data (complex peptide mixture; individual bands are not assigned and no retention times were exported, so no peak plot is drawn). Instrument data retained in PL-2610-041-HPLC.raw.


**For laboratory research use only.** Not for human or veterinary use.

## 2 HPLC METHOD · PL-2610-041-HPLC.RAW

**INSTRUMENT**
Waters Alliance e2695

**DATA SYSTEM**
Empower 3

**DETECTOR**
UV absorbance

**DETECTION WAVELENGTH**
214 nm

**COLUMN**
C18, 150 × 4.6 mm, 3.5 µm

**MOBILE PHASE A**
0.1 % TFA in water

**MOBILE PHASE B**
0.1 % TFA in MeCN

**GRADIENT**
5–95 % B over 25 min (linear)

**FLOW RATE**
1.0 mL/min

**COLUMN TEMPERATURE**
40 °C

**INJECTION VOLUME**
10 µL

## 3 GRADIENT PROGRAM

| TIME (MIN) | % A | % B |
|---|---|---|
| 0.0 | 95 | 5 |
| 25.0 | 5 | 95 |

## 4 PEAK TABLE

| PEAK | RT (MIN) | AREA | AREA % |
|---|---|---|---|
| **1** | — | — | **99.40** |
| 2 | — | — | 0.60 |
| Total | | — | 100.00 |

Peaks: 1 main band; 2 all other bands (by difference) · main-band area % from the lot-release data · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

## 5 IDENTITY BY MASS SPECTROMETRY

**INSTRUMENT**
Waters SQD

**IONIZATION / MODE**
ESI, positive

**METHOD**
LC-MS peptide map vs reference

**RESULT**
Peptide map matches reference

**DATA FILE**
PL-2610-041-MS.d

## 6 ADDITIONAL TESTS

| TEST | PERFORMED BY | DATE | REPORT / FILE |
|---|---|---|---|
| Water content (Karl Fischer) | PrymaLab Analytical | 2026-10-02 | — |
| Endotoxin (LAL, kinetic) | PrymaLab Analytical | 2026-10-02 | — |
| Microbial limits (USP <61>/<62>) | PrymaLab Analytical | 2026-10-08 | — |

A test with no row here was not performed on this lot. Outside-laboratory reports, when used, are attached and named below.

## 7 REVIEW AND APPROVAL

**D. Reynolds**
Analyst · performed the testing
Date: 2026-10-09

**S. Calloway**
Reviewer · checked against raw data
Date: 2026-10-09

**M. Phelps**
Lab Director · approved for release
Date: 2026-10-09

Raw data retained at: Empower 3, project PL-2610, archive PL-ARC-2026; 7 years. Outside laboratory reports attached: None

This certificate applies only to the lot named above and describes the units sampled from it; it is not a guarantee for any other lot. Results were obtained by PrymaLab LLC's own laboratory (PrymaLab Analytical) and are not an independent third-party test unless an outside report is attached. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00163 and key HEYA6D7J at prymalab.net/testing/verify; any copy that does not match the record shown there is not a PrymaLab certificate. PrymaLab LLC products are supplied for laboratory research use only and not for human or veterinary use.