

CERTIFICATE NO.

PL-26-00053

VERIFICATION KEY

Y72CBLGZ

Scan or enter both at

prymalab.net/testing/verify

CERTIFICATE OF ANALYSIS · LOT RELEASE · ISSUED FOR PURAVIUM

Ipamorelin 5 mg

Lot PL-2609-053 · Lyophilized powder · Label claim 5 mg/vial

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-2609-053        | 2026-09-18             | 2026-09-19               | 2026-10-03       |
| RETEST / EXPIRY    | UNITS IN LOT / SAMPLED | STORAGE                  | CERTIFICATE TYPE |
| 2028-09-18         | 250 / 2                | -20 °C, desiccated, dark | Lot COA, 2 pages |

|                                                                                         |             |                                                               |                         |
|-----------------------------------------------------------------------------------------|-------------|---------------------------------------------------------------|-------------------------|
| COMPOUND                                                                                | CAS NUMBER  | MOLECULAR FORMULA                                             | THEORETICAL MASS (AVG.) |
| <b>Ipamorelin</b><br>NNC 26-0161; selective growth hormone<br>secretagogue pentapeptide | 170851-70-4 | C <sub>38</sub> H <sub>49</sub> N <sub>9</sub> O <sub>5</sub> | 711.9 Da                |
| SEQUENCE                                                                                |             |                                                               |                         |
| H-Aib-H-[D-2-Nal]-[D-Phe]-K-NH <sub>2</sub> (5 residues; C-terminal amide)              |             |                                                               |                         |

PURITY · RP-HPLC, AREA %

99.69%

Specification 99.0% • main peak at 5.02 min

IDENTITY · OBSERVED MASS

712.1 Da

Theoretical 711.9 Da • +0.2 Da (281 ppm)

OVERALL CONCLUSION

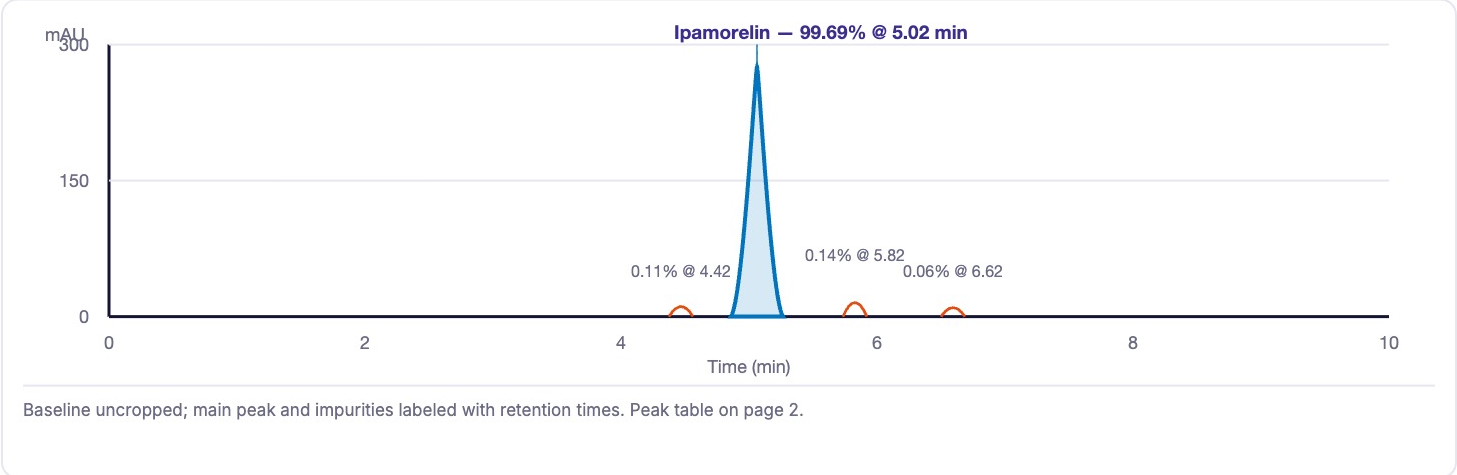
PASS

Meets every specification for the tests performed

| TEST                  | METHOD                        | SPECIFICATION                         | RESULT                                  | CONCLUSION |
|-----------------------|-------------------------------|---------------------------------------|-----------------------------------------|------------|
| Appearance            | Visual inspection             | White to off-white lyophilized powder | White lyophilized powder                | PASS       |
| Identity (mass)       | LC-MS, ESI positive           | Theoretical ± 1.0 Da                  | 712.1 Da                                | PASS       |
| Purity                | RP-HPLC, UV 214 nm, area%     | 99.0%                                 | 99.69%                                  | PASS       |
| Largest impurity      | RP-HPLC, area%                | 1.0%                                  | 0.14 % at 5.82 min (des-Lys 5 fragment) | PASS       |
| Water content         | Karl Fischer                  | 5.0 %                                 | 1.6 %                                   | PASS       |
| Bacterial endotoxin   | LAL, kinetic                  | ≤ 5.0 EU/mg                           | 0.04 EU/mg                              | PASS       |
| Sterility / bioburden | USP <71>, membrane filtration | No growth after 14 days               | No growth; conforms                     | PASS       |

1 HPLC CHROMATOGRAM

Data file: IPM\_PL-2609-053\_20260919\_01 · Column C18, 150 × 4.6 mm · UV 214 nm



2 HPLC METHOD · IPM\_PL-2609-053\_20260919\_01

|                                                              |                           |                       |
|--------------------------------------------------------------|---------------------------|-----------------------|
| INSTRUMENT                                                   | DATA SYSTEM               | DETECTOR              |
| Waters Alliance e2695, SN E2695B742                          | Empower 3, Build 3471     | Waters 2998 PDA       |
| DETECTION WAVELENGTH                                         | COLUMN                    | COLUMN PART / SERIAL  |
| 214 nm                                                       | C18, 150 × 4.6 mm, 3.5 µm | 186003326 / USHX18211 |
| MOBILE PHASE A                                               | MOBILE PHASE B            | FLOW RATE             |
| 0.1% TFA in water                                            | 0.1% TFA in MeCN          | 1.0 mL/min            |
| COLUMN TEMPERATURE                                           | INJECTION VOLUME          | RUN TIME              |
| 30 °C                                                        | 20 µL                     | 10 min                |
| SAMPLE DILUENT                                               | SAMPLE CONCENTRATION      | BLANK INJECTED        |
| Water, 0.1% TFA                                              | 0.2 mg/mL                 | Yes                   |
| REFERENCE STANDARD                                           |                           |                       |
| In-house Ipamorelin reference, lot PL-RS-IPM-01, RT 5.00 min |                           |                       |

3 GRADIENT PROGRAM

| TIME (MIN) | % A | % B |
|------------|-----|-----|
| 0.0        | 95  | 5   |
| 3.0        | 95  | 5   |
| 7.0        | 55  | 45  |
| 8.0        | 20  | 80  |
| 9.0        | 20  | 80  |
| 10.0       | 95  | 5   |

4 PEAK TABLE

| PEAK           | RT (MIN) | AREA      | AREA % |
|----------------|----------|-----------|--------|
| 1 (des-Nal 3 ) | 4.42     | 4,730     | 0.11   |
| 2              | 5.02     | 4,286,670 | 99.69  |
| 3 (des-Lys 5 ) | 5.82     | 6,020     | 0.14   |
| 4 (epimer)     | 6.62     | 2,580     | 0.06   |
| Total          |          | 4,300,000 | 100.00 |

Threshold 0.05% area · Blank subtracted: Y · Purity = main peak area ÷ total integrated area × 100, to two decimals; main peak shaded.

5 IDENTITY BY MASS SPECTROMETRY

|                                   |                   |                                      |
|-----------------------------------|-------------------|--------------------------------------|
| INSTRUMENT                        | IONIZATION / MODE | OBSERVED M/Z (CHARGE)                |
| Waters Acquity SQD                | ESI, positive     | 712.8 (1+ [M+H]) · 734.8 (1+ [M+Na]) |
| DECONVOLUTED MASS                 | THEORETICAL MASS  | DIFFERENCE                           |
| 712.1 Da (free-base pentapeptide) | 711.9 Da          | +0.2 Da (281 ppm)                    |
| DATA FILE                         | ACCEPTANCE        |                                      |
| IPM_PL-2609-053_MS_20260919_01    | Within ± 1.0 Da   |                                      |

6 ADDITIONAL TESTS

| TEST            | PERFORMED BY | DATE       | REPORT / FILE      |
|-----------------|--------------|------------|--------------------|
| Water content   | PrymaLab     | 2026-09-20 | RPT-KF-PL-2609-053 |
| Endotoxin       | PrymaLab     | 2026-09-21 | RPT-ET-PL-2609-053 |
| Sterility       | PrymaLab     | 2026-10-02 | RPT-ST-PL-2609-053 |
| Peptide content | PrymaLab     | 2026-09-20 | RPT-AA-PL-2609-053 |

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                     | S. Calloway                         | M. Phelps                           |
| Analyst · performed the testing | Reviewer · checked against raw data | Lab Director · approved for release |
| Date: 2026-09-19                | Date: 2026-10-02                    | Date: 2026-10-03                    |

Raw data retained at: Empower 3 (Build 3471), project PL-2609, 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. This copy is issued for Puravium, a distributor of the lot; the brand shown does not change the laboratory, the method or the results. Reference values (CAS, formula, theoretical mass, sequence) are literature values for the named compound. Authenticity: scan the QR code or enter certificate number PL-26-00053 and key Y72CBLGZ 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.