



Solvipuritý

ANALYTICAL LABORATORY · REYKJAVÍK, IS

SVP-2026-00354

ISSUED 2026-03-16 · ACCREDITATION AL-1142
ISO/IEC 17025 · GMP · GLP

CERTIFICATE OF ANALYSIS



AUTHENTIC

PT-141 (Bremelanotide) 10mg

Björn Healthcare ehf. · Sterile lyophilizate, 10 mg per 3 ml clear glass vial, rubber s
topper + aluminium flip-off (white cake)

REPRESENTATIVE CHROMATOGRAM · HPLC-UV 205 NM



BATCH NO.

BJRN-20EE6MD

ANALYTICAL METHODS

RP-HPLC-UV 220 nm · LC-ESI-MS · AAA
(amino acid analysis) · Ion chromatography
(counter-ion) · Karl Fischer 2.5.32 · GC-MS
(headspace) · ICP-MS · Kinetic chromogenic
LAL 2.6.14 · Ph. Eur. 2.6.1 sterility · Ph. Eur. 2.6.12
microbial limits

MANUFACTURED

2026-10-07

EXPIRY

2028-07-07

RECEIVED

2026-03-16

RELEASE

2026-03-16

DECLARED COMPOSITION

PT-141 (Bremelanotide) 10mg — synthetic peptide; sequence:
Ac-Nle-c[Asp-His-D-Phe-Arg-Trp-Lys]-OH; CAS 189691-06-3; theoretical MW 1025.18 Da

Analytical results

20 TESTS · ALL METHODS VALIDATED

SUBSTANCE / PARAMETER	RESULT	LOQ	LIMIT	METHOD
● Appearance — sterile lyophilized cake, white to off-white	Conforms	—	homogeneous white cake, no particulates	Visual
● Solubility (water for injection, 2 mg/ml, 25 °C)	Complete within 60 s — clear colourless solution	—	Clear, no visible particles	Visual (Ph. Eur. 2.2.1)

Identification — HPLC retention time	Matches reference	—	±2.0 % of ref	RP-HPLC-UV 220 nm SVP-2026-00354 +
Identification — sequence / mass match	Confirmed CAS 189691-06-3	—	Match theoretical within ±1 Da	LC-ESI-MS
Molecular weight (measured)	1024.80 Da Δ = -0.38 Da	0.5 Da	1025.18 Da ± 1.0 Da (theoretical)	ESI-MS
Chromatographic purity (main peak)	99.59 %	0.05 %	≥ 98.0 %	RP-HPLC-UV 220 nm
Any single impurity (max)	0.37 %	0.05 %	≤ 1.00 %	RP-HPLC-UV 220 nm
Peptide content (amino acid analysis)	85.6 % w/w	0.5 %	≥ 80.0 % w/w	AAA (6 N HCl, 110 °C, 24 h)
Cyclization (disulfide / lactam confirmation)	Confirmed — single cyclic isoform	—	No linear form ≥ 0.5 %	LC-MS (reduction/Ellman)
Trifluoroacetate (TFA counter-ion)	0.29 % w/w	0.05 %	≤ 1.00 % w/w	IC (ion chromatography)
Water content (Karl Fischer)	3.23 % w/w	0.1 %	≤ 5.0 % w/w	Ph. Eur. 2.5.32
Residual acetonitrile	44 ppm	10 ppm	≤ 410 ppm (ICH Q3C Class 2)	GC-MS (headspace)
Residual DMF	49 ppm	10 ppm	≤ 880 ppm (ICH Q3C Class 2)	GC-MS (headspace)
Lead (Pb)	0.118 ppm	0.02 ppm	≤ 0.5 ppm (ICH Q3D parenteral)	ICP-MS
Arsenic + Cadmium + Mercury (total)	0.091 ppm	0.02 ppm	≤ 1.5 ppm (ICH Q3D parenteral)	ICP-MS
Bacterial endotoxins (LAL)	2.27 EU/mg	0.125 EU/mg	< 10.0 EU/mg	Kinetic chromogenic LAL (Ph. Eur. 2.6.14)
TAMC (aerobic bacteria, pre-lyophilization bulk)	4 CFU/g	1 CFU/g	≤ 10 ² CFU/g	Ph. Eur. 2.6.12
TYMC (yeast / molds, pre-lyophilization bulk)	5 CFU/g	1 CFU/g	≤ 10 ¹ CFU/g	Ph. Eur. 2.6.12
Sterility (final lyophilized vial)	Complies — no growth	—	No growth, 14 d incubation	Ph. Eur. 2.6.1 (direct inoculation)
Container closure integrity	Pass	—	No dye uptake	Dye ingress (0.05 % methylene blue, 2 h vacuum)

Solvipurity

INDEPENDENT VERIFICATION

Verify this certificate

Scan the QR or visit the URL and enter the 6-character code.

Everything on this printed copy must match the online record exactly.

Any discrepancy means the document has been tampered with.



solvipurity.com/pl/verify/result?id=SVP-2026-00354&code=EFG2V6

EFG2V6

VERIFICATION CODE

ANALYST

dr Lars Nyström
Senior chemist

INDEPENDENT REVIEWER

dr Helga Thorgeirsdottir
Quality assurance · AL-1142

SHA-256 CHECKSUM

0-xec960f9e9af11c7aec960f9e9af11c7aec960f9e9af11c7
Tamper-evident digest

NOTICE · CONDITIONS OF THIS REPORT

This certificate of analysis applies exclusively to the sample received and described above. It does not constitute approval, endorsement or certification of the product or its intended use. Results were obtained under ISO/IEC 17025 accredited methods by Solvipurity ehf. (accreditation AL-1142). Reproduction of this document in part is prohibited — only the full, verified copy may be shared. If the data printed here does not match the online record at solvipurity.com/verify, the document should be considered invalid.

SAMPLE RETENTION

Sealed aliquot retained for 24 months from issue date under controlled conditions (Ph. Eur. 5.1, -20 °C).

DISPUTE WINDOW

Requests for re-testing accepted within 30 days of report publication. Contact lab@solvipurity.com quoting the report number.

