



Solvipuritý

ANALYTICAL LABORATORY · REYKJAVÍK, IS

SVP-2026-00366

ISSUED 2026-03-16 · ACCREDITATION AL-1142

ISO/IEC 17025 · GMP · GLP

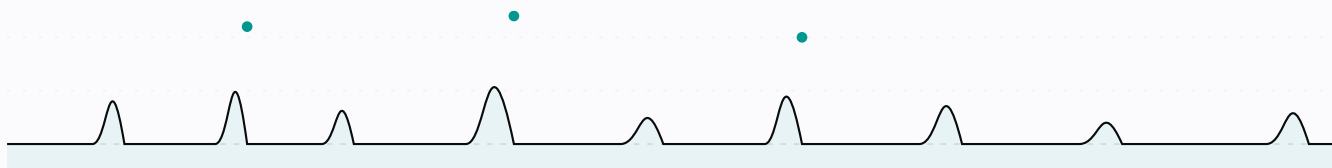
CERTIFICATE OF ANALYSIS

AUTHENTIC

Syn-Coll (Palmitoyl Tripeptide-5) 200mg

Björn Healthcare ehf. · Sterile lyophilizate, 200 mg per 3 ml clear glass vial, rubber stopper + aluminium flip-off (white cake)

REPRESENTATIVE CHROMATOGRAM · HPLC-UV 205 NM



BATCH NO.

BJRN-205XKS4

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

2026-11-16

EXPIRY

2028-08-16

RECEIVED

2026-03-16

RELEASE

2026-03-16

DECLARED COMPOSITION

Syn-Coll (Palmitoyl Tripeptide-5) 200mg — synthetic peptide; sequence: Palmitoyl-Lys-Val-Lys (Tripeptide-5); CAS 623172-56-5; theoretical MW 593.71 Da

Analytical results

19 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
● Identification — sequence / mass match	Confirmed CAS 623172-56-5	–	Match theoretical within ±1 Da	LC-ESI-MS
● Molecular weight (measured)	593.57 Da Δ = -0.14 Da	0.5 Da	593.71 Da ± 1.0 Da (theoretical)	ESI-MS
● Chromatographic purity (main peak)	99.47 %	0.05 %	≥ 98.0 %	RP-HPLC-UV 220 nm
● Any single impurity (max)	0.33 %	0.05 %	≤ 1.00 %	RP-HPLC-UV 220 nm
● Peptide content (amino acid analysis)	91.1 % w/w	0.5 %	≥ 80.0 % w/w	AAA (6 N HCl, 110 °C, 24 h)
● Trifluoroacetate (TFA counter-ion)	0.71 % w/w	0.05 %	≤ 1.00 % w/w	IC (ion chromatography)
● Water content (Karl Fischer)	1.43 % w/w	0.1 %	≤ 5.0 % w/w	Ph. Eur. 2.5.32
● Residual acetonitrile	120 ppm	10 ppm	≤ 410 ppm (ICH Q3C Class 2)	GC-MS (headspace)
● Residual DMF	127 ppm	10 ppm	≤ 880 ppm (ICH Q3C Class 2)	GC-MS (headspace)
● Lead (Pb)	0.110 ppm	0.02 ppm	≤ 0.5 ppm (ICH Q3D parenteral)	ICP-MS
● Arsenic + Cadmium + Mercury (total)	0.036 ppm	0.02 ppm	≤ 1.5 ppm (ICH Q3D parenteral)	ICP-MS
● Bacterial endotoxins (LAL)	3.28 EU/mg	0.125 EU/mg	< 10.0 EU/mg	Kinetic chromogenic LAL (Ph. Eur. 2.6.14)
● TAMC (aerobic bacteria, pre-lyophilization bulk)	1 CFU/g	1 CFU/g	≤ 10 ² CFU/g	Ph. Eur. 2.6.12
● TYMC (yeast / molds, pre-lyophilization bulk)	0 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

