

## Certificate of Analysis

<b>Lot number</b>	<b>XR24041001-3</b>
<b>Product</b>	<b>Survodutide</b> His-(1-amino-1-cyclobutanecarboxylic acid)-Gln-Gly-Thr-Phe-Thr-Ser-Asp-Tyr-Ser-Lys-Tyr-Leu-Asp-Glu-Arg-Ala-Ala-Lys-Asp-Phe-Ile-Lys(Gly-Gly-Ser-Gly-Ser-Gly-γ-Glu-17-carboxyheptadecanoyl)-Trp-Leu-Glu-Ser-Ala-NH <sub>2</sub>
<b>Manufacturing date</b>	Jun 29, 2024
<b>Retest date</b>	Jun 28, 2024
<b>CAS number</b>	2805997-46-8
<b>Molecular formula</b>	C <sub>192</sub> H <sub>289</sub> N <sub>47</sub> O <sub>61</sub>
<b>Molecular mass</b>	4231.62

Tests	Specifications	Results
<b>Appearance</b>	white or almost white powder	white powder
<b>Identification (MS)</b>	4231.62±1.0	conforms
<b>Solubility</b>	soluble in water	conforms
<b>Water content (karl fischer)</b>	≤ 8.0%	4.80%
<b>Sodium ion</b>	≤ 5.0%	1.37%
<b>Acetic acid (HPLC)</b>	≤ 0.5%	0.03%
<b>Trifluoroacetic acid</b>	≤ 0.5%	not detected
<b>Peptide purity (HPLC)</b>	≥ 98.0%	99.57%
<b>Assay (C<sub>192</sub>H<sub>289</sub>N<sub>47</sub>O<sub>61</sub>)</b>	≥ 80.0%	91.61%
<b>Total impurities</b>	≤ 2.0%	0.43%
<b>Largest single impurity</b>	≤ 1.0%	0.18%
<b>pH</b>	7.0-9.0	7.12
<b>Bacterial endotoxins (kinetic turbidimetry)</b>	NMT 10 EU/mg	conforms
<b>Total aerobic microbial count</b>	NMT 100 CFU/g	conforms
<b>Total yeasts and molds count</b>	NMT 100 CFU/g	conforms

Analysis date: Jul 16, 2024

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