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Print Date: Jan 15th 2016

Certificate of Analysis

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Product Name: **Alytesin** **Catalog No.: 1893** **Batch No.: 1**
CAS Number: 31078-12-3

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{68}H_{106}N_{22}O_{17}S$
Batch Molecular Weight: 1535.78
Physical Appearance: White lyophilised solid
Net Peptide Content: 89%
Solubility: Soluble to 1 mg/ml in water
Storage: Desiccate at -20°C
Peptide Sequence: Glp-Gly-Arg-Leu-Gly-Thr-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH_2

2. ANALYTICAL DATA

HPLC: Shows >95% purity

3. AMINO ACID ANALYSIS DATA

Amino Acid	Theoretical	Actual	Amino Acid	Theoretical	Actual
Ala	1.00	1.16	Lys		
Arg	1.00	1.07	Met	1.00	0.97
Asx			Phe		
Cys			Pro		
Glx	1.00	1.03	Ser		
Gly	3.00	3.02	Thr	1.00	0.99
His	1.00	1.05	Trp	1.00	
Ile			Tyr		
Leu	2.00	2.00	Val	1.00	1.00

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Product Name: **Alytesin** **Catalog No.: 1893** **Batch No.: 1**

CAS Number: 31078-12-3

Description:

Amphibian bombesin-like peptide. Stimulates gastric acid secretion, intestinal contraction, rat uterine contraction and hypertension in vivo in the dog. Also modulates thermoregulation following central administration in vivo.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{68}H_{106}N_{22}O_{17}S$

Batch Molecular Weight: 1535.78

Physical Appearance: White lyophilised solid

Peptide Sequence:

Glp-Gly-Arg-Leu-Gly-Thr-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH_2

Storage: Desiccate at -20°C

Solubility & Usage Info:

Soluble to 1 mg/ml in water

This product is supplied as a lyophilized solid and may be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Net Peptide Content: 89% (Remaining weight made up of counterions and residual water).

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Peptides in solution are much less stable than in lyophilized form. This is especially true for peptides whose sequences contain amino acids such Cys, Met,Trp, Asn, Gln, and N-terminal Glu.

Therefore we recommend storing peptides in solution for as short a time as possible. Avoid repeated freeze thaw cycles by dividing the peptide solution into aliquots and storing the aliquots at -20°C. Any portion of an aliquot unused after thawing should be discarded.

Peptides stored in solution can occasionally be susceptible to bacterial degradation. We recommend using sterile solutions or passing the peptide solution through a 0.2 µm filter to remove potential bacterial contamination whenever possible.

References:

Anastasi (1971) Alytesin and bombesin, two peptide analogs from amphibian skin. Naunyn Schmiedebergs Arch.Pharmacol. ***269*** 135. PMID: 4254272.

Broccardo *et al* (1975) Relative potency of bombesin-like peptides. Br.J.Pharmacol. ***55*** 221. PMID: 1201380.

Rivier and Brown (1978) Bombesin, bombesin analogues, and related peptides: effects on thermoregulation. Biochemistry ***17*** 1766. PMID: 656396.

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