Certifi	cate	of A	anal	vsis
- BREE	H -		# B B # 6 B	

7001355 Lot number Product Octreotide Acetate H-D-Phe-Cys-Phe-D-Trp-Lys-Thr-Cys-Threoninol (Disulfide bond) Product number 4076320 Molecular formula (net) C49H66N10O10S2 Molecular mass (average) 1019.3 Date of manufacture September 30, 2013 Date of release October 21, 2013 Retest date September 2015 Specification Octreo/v09 Storage condition -20 ± 2°C

Tests	Specifications	Results	
Appearance	White to off-white powder	White powder	
Appearance of solution	Clear, colorless solution (0.5% in 95% acetic acid)	Clear, colorless solution	
Solubility	Clear solution (60 mg/mL in water)	Clear solution	
pH in solution	pH 5 to 7 (10 mg/mL in water)	6.4	
Specific optical rotation $[\alpha]^{-25}$ (c = 0.2, 95% HOAc)	-45° to -70° (corrected for peptide content)	-58.3°	
Identity (mass spectrometry)	1018.4 ± 1.0 Da (monoisotopic mass)	1018.7 Da (monoisotopic mass)	
Identity (amino acid analysis)	Lys 0.90 to 1.10 Thr 0.80 to 1.00 Cys 1.60 to 2.40 Phe 1.80 to 2.20 Trp 0.80 to 1.10 Thr-ol 0.90 to 1.10	0.99 0.88 1.85 2.02 0.98 0.99	
Identity (HPLC)	Coelutes with reference standard	TM010.OctreoTFA: Coelutes TM010.OctreoTEAP: Coelutes	
Purity (HPLC)	≥ 98.5%	TM010.OctreoTFA: 99.7% TM010.OctreoTEAP: 99.6%	
Related substances (HPLC)	≤ 0.5% individual ≤ 1.5% total Report individual related substances >0.1%	TM010.OctreoTFA: < 0.5% individual 0.3 % total No individual related substance > 0.1% TM010.OctreoTEAP:	Bachern Americas, Inc. 3132 Kashiwa Street Torrance, CA 90505
		 0.5% individual 0.4% total No individual related substance >0.1% 	USA Tel 1-310-539-4171 Fax 1-310-539-9428



TSE-Safety Certificate

Lot number

7001355

Product

Octreotide Acetate

Product number

4076320

I hereby certify that the above mentioned lot is

a synthetic peptide manufactured using synthetic amino acid derivatives as well as solvents and reagents of non-human and non-animal sources. Supplies of synthetic amino acid derivatives are manufactured using amino acids of non-human and non-animal sources. Therefore, monograph 5.2.8 of the European Pharmacopoeia on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products and the Note for Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Human and Veterinary Medicinal Products (EMA/410/01) do not apply.

Date: October 21, 2013 Bachem Americas, Inc.

Jackie Little Quality Assurance

> Bachem Americas, Inc. 3132 Kashiwa Street Torrance, CA 90505 USA

Tel 1-310-539-4171 Fax 1-310-539-9428



Packaging and Labeling Certificate

Lot number

7001355

Product

Octreotide Acetate

Product number

4076320

This shipment has been packaged and labelled in accordance with Good Manufacturing Practice as specified in the International Conference on Harmonisation (ICH) Q7 Good Manufacturing Practice Guidance for Active Pharmaceutical Ingredients.

Sales Order Number: 0009172954

Name: <u>Neronica Loya</u> Quality Assurance

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