

**Certificate Of Analysis**  
**Quality Control Testing and Research Application**COA Preparation Date: 28/11/2014  
COA Revision Date: 28/11/2017

**Product:** Ghrelin (rat)  
**Cat. No.:** BP0130  
**Batch No.:** 0130BP/01  
**Chemical Name:**

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>147</sub>H<sub>245</sub>N<sub>45</sub>O<sub>42</sub>  
**Batch Molecular Weight:** 3314.83  
**CAS No.:** [258338-12-4]  
**Physical Appearance:** White lyophilised solid  
**Melting Point:**  
**Solubility:** Soluble to 1 mg/ml in water  
**Storage:** Desiccate at -20° C  
**Batch Molecular Structure:**

H-Gly-Ser-Ser(Octanoyl)-Phe-Leu-Ser-  
Pro-Glu-His-Gln-Lys-Ala-Gln-Gln-Arg-  
Lys-Glu-Ser-Lys-Lys-Pro-Pro-Ala-Lys-  
Leu-Gln-Pro-Arg-OH

**Product Description:** **Endogenous growth hormone secretagogue (GHS) receptor agonist. Produced mainly by the stomach, it stimulates release of growth hormone from the pituitary gland regulates feeding, growth and energy production.**

**References:** 1. Kojima et al. (1999) Nature 402:656; 2. Tolle et al. (2001) Neuroendocrinology 73:54; 3. Inui (2001) Nature Rev Neurosci 2:551; 4. Davenport et al. (2005) Pharmacol Rev 57:541; 5. Camina (2006) J Neuroendocrinol 18:65

- CAUTION - Not fully tested. For Research use only. Not for human use. -

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**BP0130 Ghrelin (rat)**

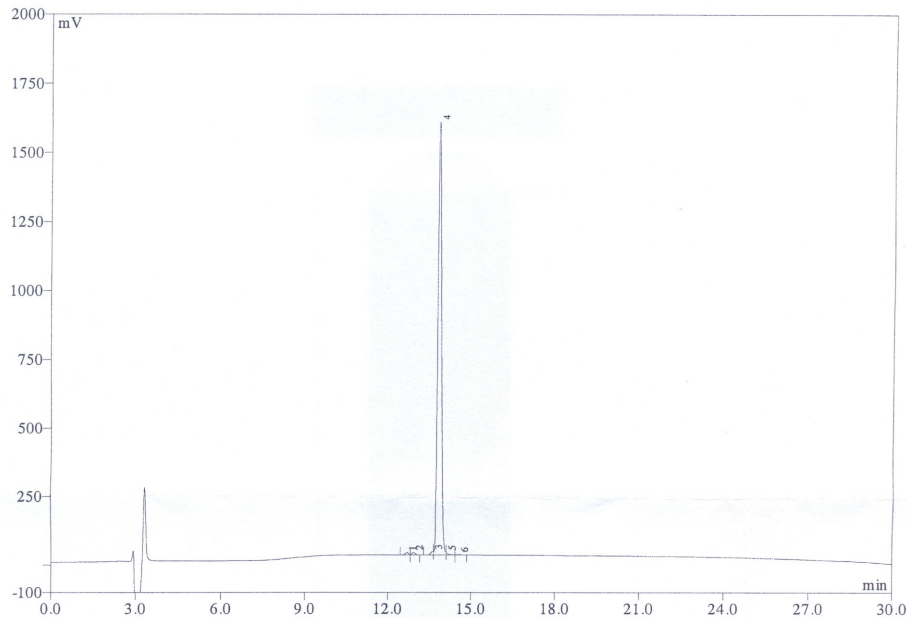
**2. ANALYTICAL DATA**

HPLC: corresponds to the reference

MS: corresponds to the reference

Tests: Peptide Content: 75.1%; HPLC Assay: 98.1% (complies).

KromaSystem 2000 Version 1.60 RESULT REPORT: INTEGRATION  
 SYS2 - 080207S2.SMP (modified):  
 No. 03: SC1356M AW09059F Acquired : 08.02.07 13:18:28  
 Volume d'injection : 20.000  
 Poids : 300.000 Dilution : 300.000  
 Programme d'analyse : 2080S2 WSH : SC18F  
 Colonne : Symmetry C18 250\*4.6mm W40311B003  
 Tampons : A:TFA 0.1% B:CH3CN + TFA 0.1% 1ml//mn 210nm  
 20-80% 30min 60°C



No.	Ret.Time min	Area mV*min	Rel.Area %
1	12.70	1.0488	0.42
2	12.93	1.1187	0.45
3	13.62	1.2978	0.52
4	13.83	245.8314	98.19
5	14.11	0.7706	0.31
6	14.56	0.2899	0.12
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		250.3572	100.00

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