

# Certificate of Analysis

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**Product Name:** Carbetocin

**Catalog No.:** 4852

**Batch No.:** 4

**CAS Number:** 37025-55-1

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>45</sub>H<sub>69</sub>N<sub>11</sub>O<sub>12</sub>S  
**Batch Molecular Weight:** 988.17  
**Physical Appearance:** White lyophilised solid  
**Counter Ion:** TFA  
**Solubility:** Soluble to 29.65 mg/ml in water  
**Storage:** Store at -20°C  
**Peptide Sequence:** Butyryl-Tyr(Me)-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH<sub>2</sub>

## 2. ANALYTICAL DATA

**HPLC:** Shows 95.1 % purity  
**Mass Spectrum:** Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys		
Arg			Met		
Asx	1.00	1.09	Phe		
Cys			Pro	1.00	0.98
Glx	1.00	1.03	Ser		
Gly	1.00	1.00	Thr		
His			Trp		
Ile	1.00	0.96	Tyr	1.00	0.96
Leu	1.00	0.98	Val		

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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**Batch No.:** 4

CAS Number: 37025-55-1

**Description:**

Carbetocin is an oxytocin analog. Long-acting; displays agonist properties.

**Physical and Chemical Properties:**

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Batch Molecular Weight: 988.17

Physical Appearance: White lyophilised solid

**Peptide Sequence:**

Butyryl-Tyr(Me)-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH<sub>2</sub>

**Storage:** Store at -20°C

**Solubility & Usage Info:**

Soluble to 29.65 mg/ml in water

**Counter Ion:** TFA

**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 as 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:**

**Holleboom *et al*** (2013) Carbetocin in comparison with oxyt. in several dosing regimens for the prevention of uterine atony after elective caesarean section in the Netherlands. Arch.Gynecol.Obstet. Epub ahead of print. PMID: 23329341.

**Su *et al*** (2012) Carbetocin for preventing postpartum haemorrhage. Cochrane Database Syst.Rev.. PMID: 22513931.

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