

# Certificate of Analysis

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**Product Name:** [Arg<sup>8</sup>]-Vasopressin

**Catalog No.:** 2935

**Batch No.:** 8

CAS Number: 113-79-1

EC Number: 204-035-4

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>46</sub>H<sub>65</sub>N<sub>15</sub>O<sub>12</sub>S<sub>2</sub>  
**Batch Molecular Weight:** 1084.23  
**Physical Appearance:** White lyophilised solid  
**Net Peptide Content:** 87%  
**Counter Ion:** Acetate  
**Solubility:** Soluble to 0.50 mg/ml in water  
**Storage:** Desiccate at -20°C  
**Peptide Sequence:** Cys-Tyr-Phe-Gln-Asn-Cys-Pro-Arg-Gly-NH<sub>2</sub>

## 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity  
**Mass Spectrum:** Consistent with structure

## 3. AMINO ACID ANALYSIS DATA

Amino Acid Theoretical			Actual		
Ala			Lys		
Arg	1.00	1.00	Met		
Asx	1.00	1.00	Phe	1.00	1.00
Cys	2.00	Detected	Pro	1.00	1.00
Glx	1.00	1.10	Ser		
Gly	1.00	1.00	Thr		
His			Trp		
Ile			Tyr	1.00	1.00
Leu			Val		

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**Description:**

Antidiuretic hormone found in most mammalian species. Also acts as a neurotransmitter at synapses in the brain; increases [Ca<sup>2+</sup>]<sub>i</sub> in cultured rat hippocampal neurons.

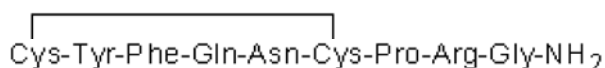
**Physical and Chemical Properties:**

Batch Molecular Formula: C<sub>46</sub>H<sub>65</sub>N<sub>15</sub>O<sub>12</sub>S<sub>2</sub>

Batch Molecular Weight: 1084.23

Physical Appearance: White lyophilised solid

**Peptide Sequence:**



**Storage:** Desiccate at -20°C

**Solubility & Usage Info:**

Soluble to 0.50 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:** 87% (Remaining weight made up of counterions and residual water).

**Counter Ion:** Acetate

**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:**

**Chan *et al*** (2000) Discovery and design of novel and selective vasopressin and oxyt. agonists and antagonists: the role of bioassays. *Exp.Physiol.* **85S** 7S.

**Cowley *et al*** (2000) Control of renal medullary circulation by vasopressin V<sub>1</sub> and V<sub>2</sub> receptors in the rat. *Exp.Physiol.* **85S** 223S.

**Migara *et al*** (1999) [Arg<sup>8</sup>]-vasopressin-induced increase in intracellular Ca<sup>2+</sup> concentration in cultured rat hippocampal neurons. *Brain Res.Bull.* **49** 343. PMID: 10452354.

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