



BMA BIOMEDICALS



Peninsula Laboratories

S-1355

Oxytocin ELISA

Oxytocin is a neuropeptide hormone produced by the hypothalamus and secreted by the pituitary gland. It is derived by enzymatic cleavage from the peptide precursor encoded by the human OXT gene. Oxytocin is released into the bloodstream as a hormone in response to stretching of the cervix and uterus during labor and it plays an important role in the childbirth process and also helps with male reproduction. Oxytocin is derived by enzymatic cleavage from the peptide precursor encoded by the human OXT gene.

This ELISA was developed with serum from rabbits immunized with Oxytocin coupled to a carrier protein.

TECHNICAL AND ANALYTICAL CHARACTERISTICS

| | |
|----------------------|---|
| Lot number: | A18158 |
| Host species: | Rabbit IgG |
| Quantity: | 96 tests |
| Format: | Extraction-free kit for human serum or plasma (ELISA type). |
| Shelf-life: | One year from production date. Store refrigerated at 4° - 8°C. |
| Applications: | This ELISA has been validated with the included reagents. It is intended to be used with samples of human origin (original protocol V, Ab1hr.Std2hr.BtON). For research use only. Please see www.bma.ch for protocols and general information. |
| Range: | 0-10ng/ml |
| Average IC50: | 0.15ng/ml |
| Immunogen: | Synthetic peptide H-Cys-Tyr-Ile-Gln-Asn-Cys-Pro-Leu-Gly-NH ₂ , (Disulfide bond) coupled to carrier protein. |

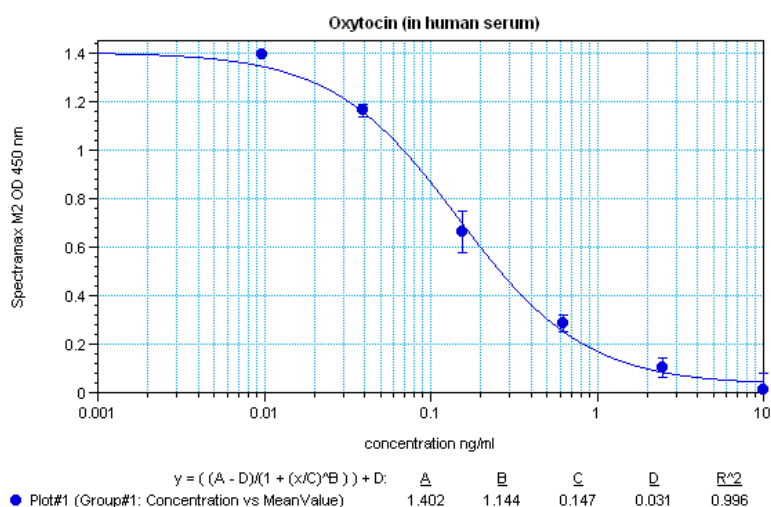
Cross-Reactivity:

| PEPTIDE: | %: |
|---------------------------------|-----------|
| Oxytocin | 100 |
| [Lys ⁸] Vasopressin | <0.01 |
| [Arg ⁸]-Vasopressin | 0 |
| [Arg ⁸]-Vasotocin | 0 |
| human Growth Hormone | 0 |
| ANF (1-28) (human) | 0 |
| LHRH | 0 |
| CRF (human, rat) | 0 |
| Met-Enkephalin | 0 |

Cross-Reactivity (continued):

| PEPTIDE: | %: |
|--|----|
| GRF (human) | 0 |
| Somatostatin-14 | 0 |
| TRH | 0 |
| VIP (human, bovine, porcine, rat) | 0 |
| (Ile ³)-Pressinoic Acid | 0 |
| PACAP-27 (human, mouse, ovine, porcine, rat) | 0 |

Typical titration curve of Oxytocin in a competitive ELISA with this antibody:



| Suggested Preparation of Standards | | |
|------------------------------------|-------|--------------------------------|
| | ng/ml | Range: 0.01 to 10ng/ml |
| Stock | 1000 | |
| S1 | 10.00 | Add 10µl Stock + 990µl diluent |
| S2 | 2.50 | Add 200µl S1 + 600µl diluent |
| S3 | 0.63 | Add 200µl S2 + 600µl diluent |
| S4 | 0.16 | Add 200µl S3 + 600µl diluent |
| S5 | 0.04 | Add 200µl S4 + 600µl diluent |
| S6 | 0.01 | Add 200µl S5 + 600µl diluent |
| S0 | 0.00 | 500µl diluent |

Related Products:

S-1176: ELISA, high sensitivity for extracted samples
 T-5051: anti Oxytocin, neat antiserum, host: guinea pig
 T-4084: anti Oxytocin, neat antiserum, host: rabbit
 T-4082: anti Oxytocin, diluted antiserum
 T-4083: anti Oxytocin purified IgG

This product contains Thimerosal as a preservative and is intended for laboratory use and research purposes only. Purchase of this product does not include authorization to use it in diagnostic or therapeutic applications.