

Oxytocin

Method:	Enzyme-Linked Immunoassay (ELISA)
Kit Manufacturer:	Enzo Life Sciences, Farmingdale, NY
Description:	<p>Oxytocin is a neurohypophysial peptide which is produced in the paraventricular nuclei of the hypothalamus and stored in the posterior pituitary. The molecule consists of nine amino acids linked with a [1-6] disulfide bond and a semi-flexible carboxyamidated tail.</p> <p>The biologically active form of oxytocin, is also known as the octapeptide "oxytocin disulfide" (oxidized form), but oxytocin also exists as a reduced dithiol nonapeptide called oxytoceine. It has been theorized that open chain oxytoceine (the reduced form of oxytocin) may also act as a free radical scavenger (by donating an electron to a free radical); oxytoceine may then be oxidized back to oxytocin via the dehydroascorbate <---> ascorbate redox couple.</p> <p>It plays a role in social bonding, sexual reproduction in both sexes, and during and after childbirth. Oxytocin may play a role in autism and may be an effective treatment for autism's repetitive and affiliative behaviors.</p> <p>The Oxytocin EIA kit is a colorimetric competitive enzyme immunoassay kit, with very low reactivity with vasopressin</p>

Collection and Performance Characteristics

Tube type:	Preferred: Serum (SST) Alternate: Plasma
Minimum Volume:	0.5 mL Avoid repeated freeze-thaw cycles. Blood samples should be drawn into chilled serum or EDTA tubes containing Aprotin Store at -80°C until analysis is performed
Lowest Reportable Value:	15pg/ml
Dynamic range:	15.6 - 1,000 pg/ml
Precision:	Intra-Assay variation is: 10.2% – 13.3% Inter-Assay Variation is: 11.8% - 20.9%
Reference Range:	Unknown