

## **PRODUCT DATA SHEET**

<b>Product Data Sheet:</b>	Sheep Monoclonal Antibodies (SMAs) to <b>Estradiol (E2)</b>
<b>SMA Covered</b>	<b>E2.5A11, E2.6H9 &amp; E2.2C7</b>
<b>Introduction and Production Description</b>	The assay of <b>estradiol</b> is of interest in biological samples such as serum and oral fluid (saliva). The actual levels in clinical specimens can be very low (<20 pg/mL in the serum of post-menopausal women and children) and high affinity antibodies are useful in facilitating immunoassays capable of measuring such low levels.

### **Manufacturing Specification**

Parameter	Specification	Test Method
<b>Buffer and pH</b>	PBS +0.1% Sodium azide at 7.2-7.4	pH Meter
<b>Antibody Concentration</b>	1-3 mg/mL	A280 (E <sub>c</sub> = 1.4)
<b>Purity and Aggregates</b>	Single Main Peak ≥95%	Size Exclusion HPLC
<b>Immunological Activity</b>	±20% biological activity of frozen reference standard	In house ELISA

### **ELISA DATA: Conjugate Reactivity**

	<b>E2.5A11</b>	<b>E2.6H9</b>	<b>E2.2C7</b>
<b>E2-6-BSA</b>	<b>High</b>	High	<b>Low</b>
<b>E2-3-BSA</b>	Medium	No binding	Low
<b>E1-6-BSA</b>	High	Low	Low
<b>E3-6-BSA</b>	High	<b>Medium (recommended)</b>	Low

### **ELISA DATA: Free E2 Affinity and Estrogen Cross-Reactivities**

	<b>E2.5A11</b>	<b>E2.6H9</b>	<b>E2.2C7</b>
<b>E2 affinity (IC50%)</b>	30 pg/mL	100 pg/mL	30 pg/mL
<b>E1 cross-reactivity</b>	10%	<1%	5%
<b>E3 cross-reactivity</b>	<1%	<1%	<1%

Note: - E1= estrone, E2= estradiol, E3= estriol

Datasheet last revised Jan 2022