

## **PRODUCT DATA SHEET**

Product Data Sheet:	Sheep Monoclonal Antibodies (SMAs) to Estradiol (E2)			
SMA Covered	E2.5A11, E2.6H9 & E2.2C7			
Introduction and	The assay of <b>estradiol</b> is of interest in biological samples			
<b>Production Description</b>	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	
Buffer and pH	PBS +0.1% Sodium azide at 7.2-7.4	pH Meter	
Antibody Concentration	1-3 mg/mL	A280 (Ec = 1.4)	
Purity and Aggregates	Single Main Peak ≥95%	Size Exclusion HPLC	
Immunological Activity	±20% biological activity of frozen reference standard	In house ELISA	

## **ELISA DATA: Conjugate Reactivity**

	E2.5A11	E2.6H9	E2.2C7
E2-6-BSA	High	High	Low
E2-3-BSA	Medium	No binding	Low
E1-6-BSA	High	Low	Low
E3-6-BSA	High	Medium	Low

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

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

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