

PRODUCT DATA SHEET

Product Data Sheet:	Sheep Monoclonal Antibody (SMA) to Estrone (E1)
SMA Covered	E1.3H11
Production Description	The measurement of estrone is of interest to researchers in the estrogen field. In addition, some estradiol immunoassays have an undesirable estrone cross-reactivity which can be removed by the use of an estrone scavenger or blocker such as E1.3H11.

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 (E _c = 1.4)
Purity and Aggregates	Single Main Peak ≥90%	Size Exclusion HPLC
Immunological Activity	±20% biological activity of frozen reference standard	In house ELISA

ELISA DATA: Conjugate Reactivities and Affinities

	E1.3H11
E1-6-BSA	High
E2-6-BSA	-

ELISA DATA: Free E1 Affinity and Estrogen Cross-Reactivities

	E1.3H11
E1 affinity (IC50%)	10 pg/mL
E2 cross-reactivity	<1%
E3 cross-reactivity	<1%

Note: - E1= estrone, E2= estradiol, E3= estriol
 - E1.3H11 can be used as an estrone blocker in E2 assays using E2.5A11

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