

## **PRODUCT DATA SHEET**

<b>Product Data Sheet:</b>	Sheep Monoclonal Antibody (SMA) to: <b>cortisol</b>
<b>SMA Covered</b>	<b>Cort.8F4</b>
<b>Production Description</b>	Cortisol, also known as hydrocortisone, is a glucocorticoid steroid hormone, produced in the adrenal cortex. It is released in response to stress and a low level of blood glucocorticoids. Its primary functions are to increase blood sugar through gluconeogenesis; suppress the immune system; and aid in fat, protein and carbohydrate metabolism

### **Manufacturing Specification**

<b>Parameter</b>	<b>Specification</b>	<b>Test Method</b>
<b>Buffer and pH</b>	PBS +0.1% Sodium azide at 7.3-7.4	pH Meter
<b>Antibody Concentration</b>	1-3mgs/mL	A280 (E <sub>c</sub> = 1.4)
<b>Purity and Aggregates</b>	Single Main Peak ≥90%	Size Exclusion HPLC
<b>Immunological Activity</b>	+/-20% biological activity of frozen reference standard	In house ELISA

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

	<b>cort-3-BSA</b>	<b>cort-6-BSA</b>	<b>cort-7-BSA</b>
<b>Conjugate affinity</b>	High	No binding	No binding

### **ELISA DATA: Free Steroid Binding (cort = 100%)**

	<b>prednisolone</b>	<b>21-deoxy cort</b>	<b>Corticost' erone</b>	<b>Dexa methasone</b>
<b>% cross-reactivity</b>	10%	5%	5%	<1%

(only significant reactivities shown)