

## **PRODUCT DATA SHEET**

<b>Product Data Sheet:</b>	Sheep Monoclonal Antibodies (SMAs) to <b>THC (tetrahydrocannabinol)</b>
<b>SMA Covered</b>	<b>THC.2B9 &amp; THC.5B7</b>
<b>Introduction and Production Description</b>	Cannabis use is widespread in many parts of the world and <b>THC</b> immunoassays can be used to monitor such abuse. High affinity antibodies with desired metabolite cross-reactivity are useful in the design of such assays.

### **Manufacturing Specification**

<b>Parameter</b>	<b>Specification</b>	<b>Test Method</b>
<b>Buffer and pH</b>	PBS +0.1% Sodium azide at 7.2-7.4	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 Reactivities and Affinities**

	<b>THC.2B9</b>	<b>THC.5B9</b>
<b>THC-1-BSA</b>	-	Medium
<b>THC-8-BSA</b>	High	Medium
<b>THC-9-BSA</b>	High	Medium

### **ELISA DATA: Free THC Affinities in PBS Buffer**

	<b>THC.2B9</b>	<b>THC.5B7</b>
<b>THC (IC50%)</b>	0.3ng/mL	0.3ng/mL
<b>THC-9-COOH (IC50%)</b>	0.1ng/mL	0.1ng/mL

Note: - THC.2B9 & THC.5B7 are recommended for measuring the parental drug – particularly in oral fluids.