PRODUCT DATA SHEET

Product Data Sheet:	Sheep Monoclonal Antibodies (SMAs) to **THC** (tetrahydrocannabinol)
SMA Covered	**THC.2B9 & THC.5B7**
Introduction and Production Description	Cannabis use is widespread in many parts of the world and **THC** 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 (both SMA's)

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 ≥90%	Size Exclusion HPLC
Immunological Activity	±20% biological activity of frozen reference standard	In house ELISA

ELISA DATA: Conjugate Reactivities and Affinities

	THC.2B9	THC.5B9
THC-1-BSA	-	Medium
THC-8-BSA	High	Medium
THC-9-BSA	High	Medium

ELISA DATA: Free E2 Affinity and Estrogen Cross-Reactivites

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

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

Datasheet last revised Jan 2022