

PRODUCT DATA SHEET

Product Data Sheet:	Sheep Monoclonal Antibodies (SMAs) to: HIV p24 antigen
SMA Covered	R.1H3, R.3C7; G.6A8; B.1H6, B.4C12
Production Description	<p>Measurement of p24 antigen (a 24 kDa protein component of the HIV capsid) is used for the early detection of HIV1 infection. High levels of p24 are present in blood serum of recently infected individuals during the short period between infection and seroconversion.</p> <p>SMAs were raised to three distinct regions of intact p24 (coded: R; G and B). All testing and ELISA pairing analysis has been undertaken using recombinant p24. The SMAs are cross reactive with recombinant p26, enabling detection of both HIV1 and HIV2 infections.</p>

Recombinant p24 ELISA pairing analysis of SMAs

		Biotinylated SMA conjugate				
		R.1H3	R.3C7	G.6A8	B.1H6	B.4C12
Coat SMA	R.1H3	-	-		+	+
	R.3C7	-	-	+++	-	+
	G.6A8	+++	+++	-	-	+
	B.1H6	+++	-	-	-	-
	B.4C12	+++	+	-	-	-

Manufacturing Specification (all SMAs)

Parameter	Specification	Test Method
Buffer and pH	PBS +0.1% Sodium azide at 7.3-7.4	pH Meter
Antibody Concentration	1-3 mg/mL	A ₂₈₀ (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