

## PRODUCT DATA SHEET

<b>Product Data Sheet:</b>	Sheep Monoclonal Antibodies (SMAs) to: <b>25-hydroxy vitamin D (25-OH D)</b>
<b>SMA Covered</b>	<b>25-OH D2 specific: vitD2.2D10</b> <b>25-OH D3 specific: vitD3.2F4</b> <b>25-OH D2/D3 specific: vitD3.5H10</b>
<b>Production Description</b>	The assay of vitamin D levels is of increasing interest and is commonly aimed at the 25-hydroxy variants. Such assays can be required to detect both 25-OH D2 and D3 and the availability of antibodies that can recognise both variants is of use in immunoassay design.

### Manufacturing Specification (all SMAs)

Parameter	Specification	Test Method
<b>Buffer and pH</b>	PBS +0.1% Sodium azide at 7.2-7.4	pH Meter
<b>Antibody Concentration</b>	1-3 mg/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 (3-hydroxy chemistry)

	VitD2.2D10	VitD3.2F4	vitD3.5H10
<b>25-OH vitD2-3-O-BSA</b>	+++	+/-	+++
<b>25-OH vitD3-3-O-BSA</b>	+/-	+++	+++

### ELISA DATA: Free Vitamin Binding

	VitD2.2D10	VitD3.2F4	vitD3.5H10
<b>Vitamin D2</b>	-	-	-
<b>Vitamin D3</b>	-	-	-
<b>25-OH vitamin D2</b>	+++	+/-	+++
<b>25-OH vitamin D3</b>	+/-	+++	+++