

# 1,25 Dihydroxy Vitamin D

<b>Method:</b>	1,25-Dihydroxy Vitamin D EIA kit, immunoextraction followed by quantitation by enzyme-immunoassay.
<b>Vendor:</b>	ImmunoDiagnosticSystems PLC, Tyne and Wear, NE35 9PD UK. #AC-62F1
<b>Description:</b>	Samples are delipidated and 1,25D extracted from potential cross-reactants by incubation for 90 minutes with a highly specific solid phase monoclonal anti-1,25D. The immunoextraction gel is then washed and purified 1,25D eluted directly into assay tubes. Reconstituted eluates and calibrators are incubated overnight with a highly specific sheep anti-1,25D. A portion of this is incubated for 90 minutes with shaking in microplate wells which are coated with a specific anti-sheep antibody. 1,25D linked to biotin is then added and the plate shaken for a further 60 minutes before aspiration and washing. Enzyme (horseradish peroxidase) labelled avidin is added and binds selectively to complexed biotin and, following a further wash step, colour is developed using a chromogenic substrate (TMB). The absorbance of the stopped reaction mixtures are read in a microtitre plate reader. Results are derived from a 4PL standard Curve.

## Sample and Performance Characteristics

<b>Tube type:</b>	Samples should be frozen in tubes or 96-well plates (preferred).
<b>Minimum Volume:</b>	Minimum submission amount for mouse is 25ul, 50ul for Human samples.
<b>Dynamic range:</b>	0.5-520 pmol/L
<b>Notes:</b>	Contact Core to arrange sample submission and assay.

Director: Thomas Gardella, Ph.D.  
 Braden Corbin, Technician  
 Email: [gardella@helix.mgh.harvard.edu](mailto:gardella@helix.mgh.harvard.edu) Website:  
<https://csr.mgh.harvard.edu/cell-signaling>