

Product Notification



No. NIS-2700/04a

Date: 22nd July 2010

Product: IDS-iSYS 25-Hydroxy Vitamin D, Code: IS-2700

Technical Information: IDS-iSYS 25-Hydroxy Vitamin D Specificity

Dear Valued Customer,

We have revised the specificity data in the Instructions for Use, in particular for 25-hydroxyvitamin D₂, based on further experimental work conducted since the kit was launched.

Previous		Revised	
Analyte	Cross-Reactivity	Analyte	Cross-Reactivity
25-hydroxyvitamin D ₃	100%	25-hydroxyvitamin D ₃	100%
25-hydroxyvitamin D ₂	>70%	25-hydroxyvitamin D ₂	100%
24,25-dihydroxyvitamin D ₃	≥100%	24,25-dihydroxyvitamin D ₃	≥100%
Cholecalciferol (D ₃)	1.8%	Cholecalciferol (D ₃)	2.7%
Ergocalciferol (D ₂)	2.1%	Ergocalciferol (D ₂)	2.7%

Dilution series of 25-OH D₃ or 25-OH D₂ were prepared in a serum matrix and assayed in the IDS-iSYS 25-Hydroxy Vitamin D Assay. The dilution series curves were drawn by plotting concentration versus Relative Light Units (RLU's). The ED 50 (50% B/B0) for each was calculated from the two curves. The 25-OH D₃ ED 50 (40ng/mL) was divided by the 25-OH D₂ ED 50 (40ng/mL) giving a cross reactivity of 100% in spiked samples. Data is present in Figure 1 below.

To further support the revised co-specificity claims for the two forms of 25-OH D, comparison studies with native samples containing high levels of 25-OH D₂ between IDS-iSYS and LC-MS/MS have been conducted. Figure 2 shows a comparison study with samples containing only 25-OH D₃ or high levels of 25-OH D₂. Similar slopes and regression values were obtained in the study indicating the IDS-iSYS 25-Hydroxy Vitamin D test kit (Code IS-2700) is 100% co-specific for endogenous 25-OH D₃ and 25-OH D₂ in patient samples.

If you have any further queries, please contact your local IDS office.

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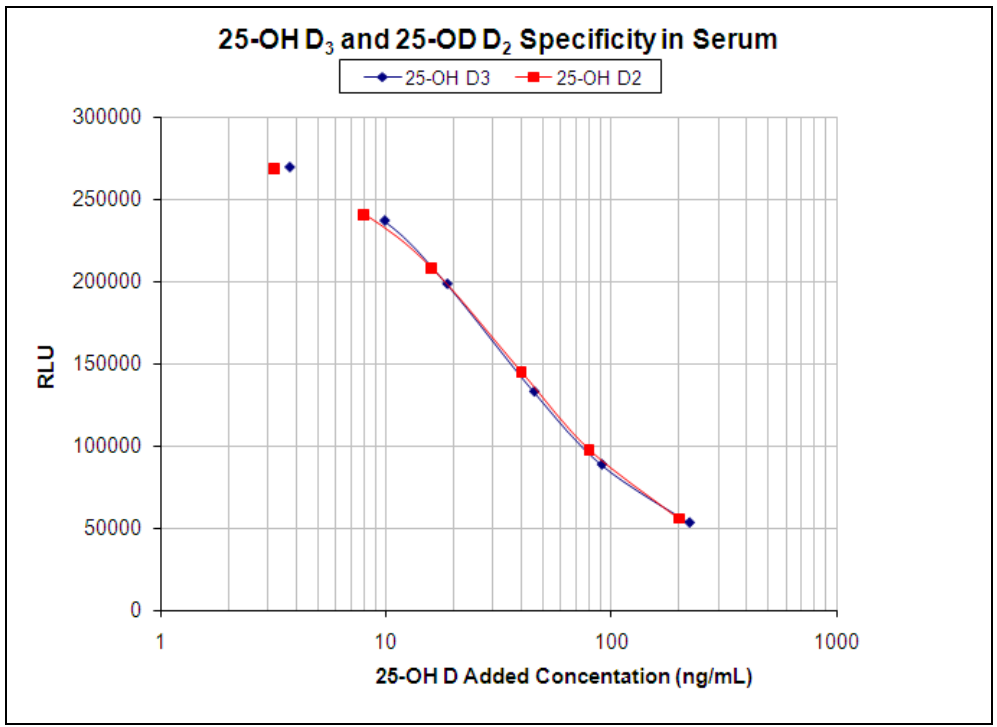


Figure 1. Dilution series of 25-OH D₃ and 25-OH D₂ metabolites in serum matrix.

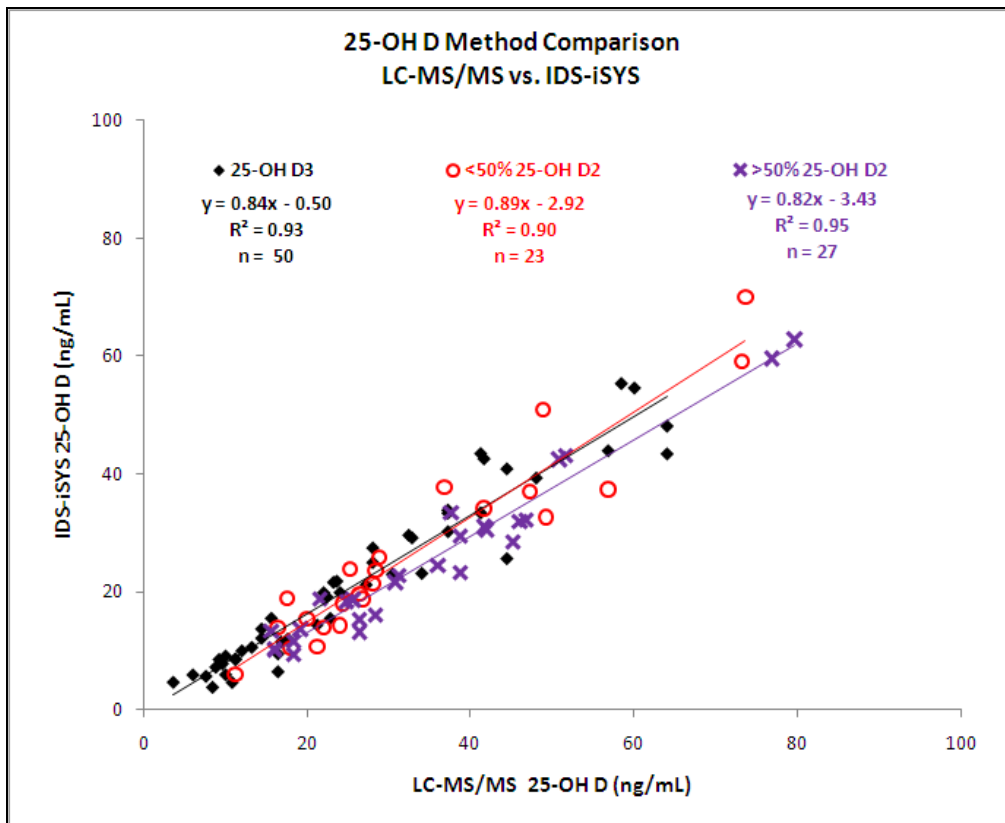


Figure 2. 25-OH D comparison study: LC-MS/MS vs. IDS-iSYS.