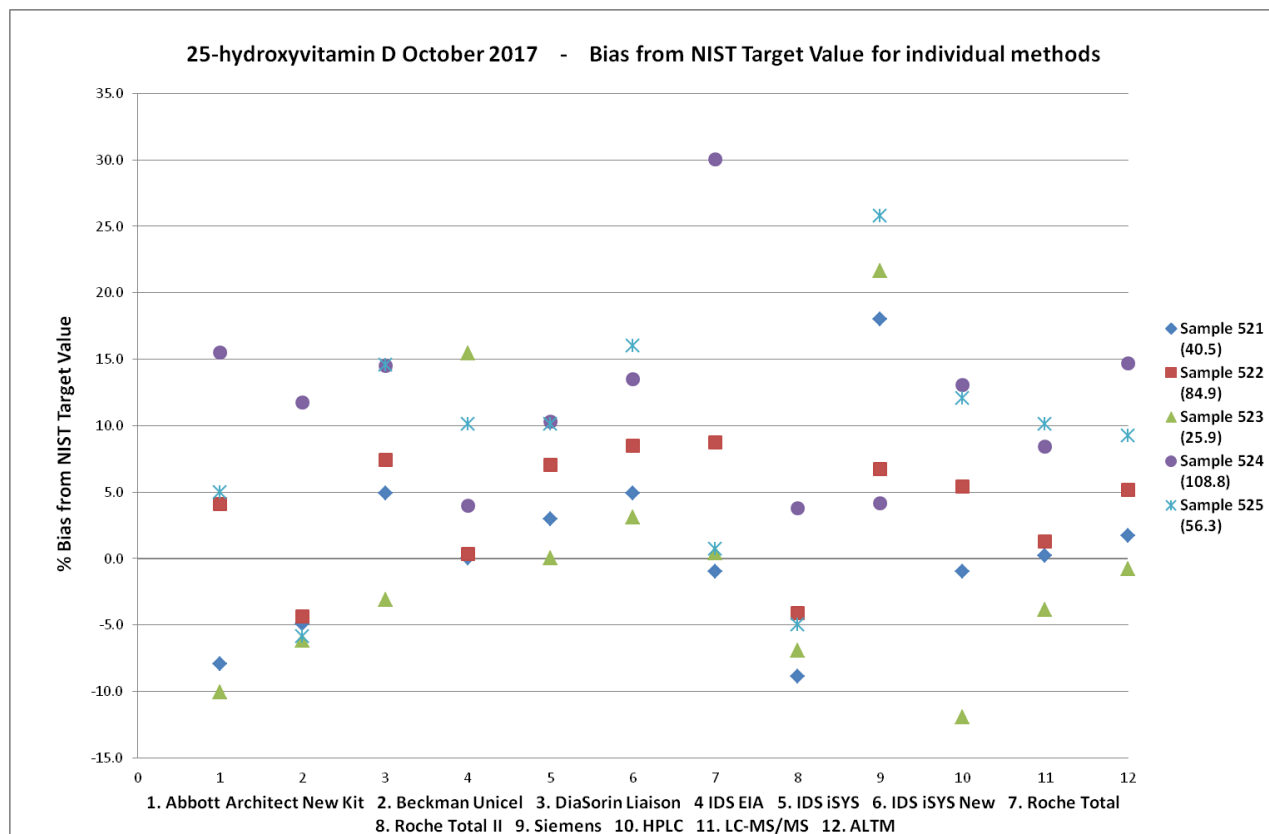


**NOTES TO ACCOMPANY THE OCTOBER 2017 25-HYDROXYVITAMIN D REPORT**

**Chart showing between-sample variability of % bias from the target value**



Legend; Sample numbers (target values nmol/L)

**3-epi-25-hydroxyvitamin D3 results for samples 521 - 525**

DEQAS Lab No.	Method	Sample 521 3-epi-25OH-D3 nmol/L	Sample 522 3-epi-25OH-D3 nmol/L	Sample 523 3-epi-25OH-D3 nmol/L	Sample 524 3-epi-25OH-D3 nmol/L	Sample 525 3-epi-25OH-D3 nmol/L
105	LC-MS/MS		5.0		6.0	
188	LC-MS/MS	<2.5	<2.5	<2.5	9.6	4.2
189	LC-MS/MS		4.2	1.2	5.4	
255	LC-MS/MS	3.0	8.6	1.2	11.2	4.5
1479	LC-MS/MS	1.6	5.9	<5	7.3	3.6
1864	LC-MS/MS	<5	7.1	<6.25	10.4	<5
1919	LC-MS/MS	<5.25	<6.25		<6.25	<6.25
1921	LC-MS/MS		<6	1.2	8.6	<6
2123	LC-MS/MS	1.8	6.8		10.6	4.0
2204	LC-MS/MS	0.2	7.7		11.5	3.3
2211	LC-MS/MS	2.9	7.8	1.0	13.3	4.7
2258	LC-MS/MS	1.4	5.1	1.0	8.3	2.7
Median		1.7	6.8	1.2	9.6	4.0
Mean		1.8	6.5	1.1	9.3	3.9
SD		1.0	1.5	0.1	2.4	0.7
CV%		57.2	23.1	9.8	26.2	18.3
n		6	9	5	11	7

**24,25-dihydroxyvitamin D results for samples 521 - 525**

DEQAS Lab No.	Method	Sample 521 24,25OH-D3 nmol/L	Sample 522 24,25OH-D3 nmol/L	Sample 523 24,25OH-D3 nmol/L	Sample 524 24,25OH-D3 nmol/L	Sample 525 24,25OH-D3 nmol/L
52	LC-MS/MS	2.9	9.3	1.2	14.8	5.4
528	LC-MS/MS	2.9	9.1	1.0	13.4	5.3
1455	LC-MS/MS	2.3	7.8	1.3	12.4	4.4
1479	LC-MS/MS	1.6	9.2	<1.1	14.4	5.7
1751	LC-MS/MS	4.3	12.0	2.0	18.2	7.4
1864	LC-MS/MS	2.0	5.6	1.2	11.7	3.9
2123	LC-MS/MS	3.2	8.9	1.2	14.6	5.6
2211	LC-MS/MS		6.3		10.6	
2258	LC-MS/MS	3.8	10.7	1.4	17.9	7.0
Median		2.9	9.1	1.2	14.4	5.5
Mean		2.9	8.8	1.3	14.2	5.6
SD		0.9	2.0	0.3	2.6	1.2
CV%		31.4	22.8	24.1	18.2	21.0
n		8	9	7	9	8

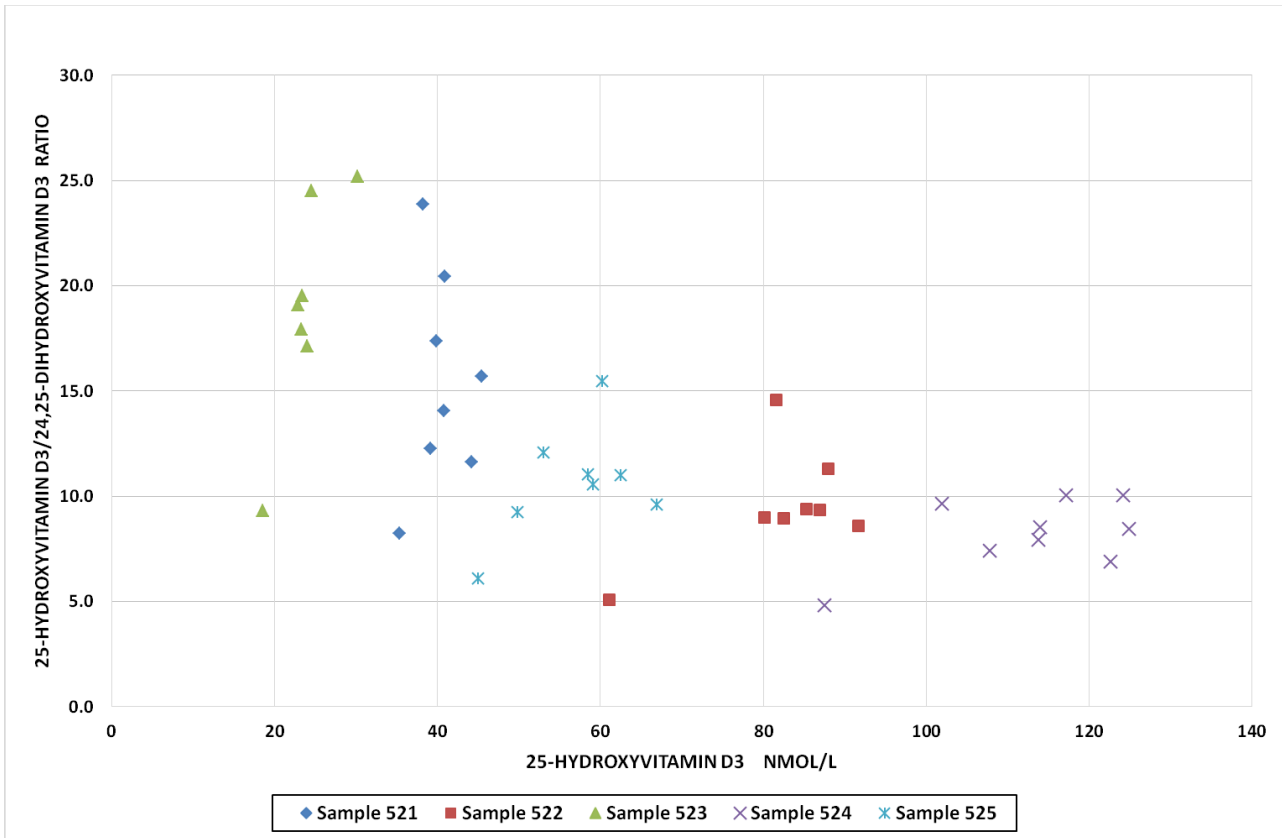
LabCode	521 25OH-D3	521 24,25-D3	521 Ratio	522 25OH-D3	522 24,25-D3	522 Ratio	523 25OH-D3	523 24,25-D3	523 Ratio	524 25OH-D3	524 24,25-D3	524 Ratio	525 25OH-D3	525 24,25-D3	525 Ratio
52	45.5	2.9	15.7	86.9	9.3	9.3	30.2	1.2	25.2	124.9	14.8	8.4	49.9	5.4	9.2
528	40.8	2.9	14.1	85.3	9.1	9.4	24.5	1.0	24.5	114.0	13.4	8.5	58.5	5.3	11.0
1455	39.9	2.3	17.3	88.0	7.8	11.3	23.3	1.3	17.9	124.2	12.4	10.0	53.1	4.4	12.1
1479	38.2	1.6	23.9	82.5	9.2	9.0	21.8	<1.1		113.8	14.4	7.9	62.5	5.7	11.0
1751	35.4	4.3	8.2	61.1	12.0	5.1	18.6	2.0	9.3	87.6	18.2	4.8	45.0	7.4	6.1
1864	40.9	2.0	20.5	81.6	5.6	14.6	23.4	1.2	19.5	117.2	11.7	10.0	60.3	3.9	15.5
2123	39.2	3.2	12.3	80.1	8.9	9.0	22.9	1.2	19.1	107.8	14.6	7.4	59.1	5.6	10.6
2211	36.1			76.3	6.3		20.8			102.0	10.6	9.6	54.9		
2258	44.2	3.8	11.6	91.7	10.7	8.6	24.0	1.4	17.1	122.7	17.9	6.9	67.0	7.0	9.6
Median	39.9	2.9	14.9	82.5	9.1	9.2	23.3	1.2	19.1	114.0	14.4	8.4	58.5	5.5	10.8
Mean	40.0	2.9	15.4	81.5	8.8	9.5	23.3	1.3	18.9	112.7	14.2	8.2	56.7	5.6	10.6
SD	3.3	0.9	5.0	8.9	2.0	2.7	3.2	0.3	5.3	12.1	2.6	1.7	6.7	1.2	2.7
CV%	8.4	31.4	32.7	10.9	22.8	28.0	13.6	24.1	27.9	10.7	18.2	20.7	11.8	21.0	25.0
n		8			9			7			9			8	

**Comment:**

The statistics were calculated on untrimmed data. Clearly, with such a small number of results the summary statistics may not be reliable.

This data is for information purposes only.

**Relationship between the ratio of 25OH-D3:24,25-D3 and 25OH-D3 for the results reported for each sample**



**Comment:**

The data appears to show the predicted inverse relationship between the ratio 25OH-D3:24,25(OH)2D3 and 25OH-D3 concentration.

**Free 25-hydroxyvitamin D results for samples 521 - 525 in pmol/L**

DEQAS Lab No.	Method	Sample 521	Sample 522	Sample 523	Sample 524	Sample 525
368	DIAsource ELISA	14.3	26.3	ND	37.3	16.3
2215	In-house ELISA	14.0	17.5	14.0	31.3	13.8
2262	DIAsource ELISA	12.4	20.0	11.5	40.7	14.9

**Comment:**

This data is for information purposes only.