

LOINC	LOINC Attributes	INDUSTRY ATTRIBUTES
		The following 6 are what Specialty & Quest are reporting.
		1,25-DIHYDROXYVITAMIN D:MCNC:PT:SER:QN::1,25-DIHYDROXYVITAMIN D TOTAL;1,25-DIHYDROXYVITAMIN D2+D3:CHEM
1649-3	Calcitriol:MCnc:Pt:Ser	1,25-DIHYDROXYVITAMIN D2:MCNC:PT:SER:QN::CHEM 1,25-DIHYDROXYVITAMIN D3:MCNC:PT:SER/PLAS:QN::CALCITRIOL:CHEM
		25-HYDROXYVITAMIN D:MCNC:PT:SER:QN::25-HYDROXYVITAMIN D TOTAL;25-HYDROXYVITAMIN D2+D3:CHEM
1989-3	Calcidiol:MCnc:Pt:Ser	25-HYDROXYVITAMIN D2:MCNC:PT:SER:QN::CHEM 25-HYDROXYVITAMIN D3:MCNC:PT:SER/PLAS:QN::CALCIDIOL;CALCIFEDIOL:CHEM
49543-2	Calcidiol+Calciferol:M	25-HYDROXYVITAMIN D3+VITMAIN D2:MCNC:PT:SER/PLAS:QN::CALCIDIOL+CALCIFEROL:CHEM
49591-1	Calcidiol & Calciferol:I	25-HYDROXYVITAMIN D3 & VITAMIN D2:IMP:PT:SER/PLAS:NAR::CALCIDIOL & CALCIFEROL:CHEM
14635-7	Calcidiol:SCnc:Pt:Ser	25-HYDROXYVITAMIN D3:SCNC:PT:SER/PLAS:QN::CALCIDIOL;CALCIFEDIOL:CHEM
35196-5	Calcidiol:MSCnc:Pt:Ser	25-HYDROXYVITAMIN D3:MSCNC:PT:SER/PLAS:QN::CALCIDIOL;CALCIFEDIOL:CHEM
55814-8	Calcidiol:SCnc:Pt:Bld	25-HYDROXYVITAMIN D3:SCNC:PT:BLDCO:QN::CALCIDIOL;CALCIFEDIOL:CHEM
1991-9	Calciferol binding prot	VITAMIN D2 BINDING PROTEINS:MCNC:PT:SER:QN::CALCIFEROL;ERGOALCIFEROL;ERCALCIOL:CHEM
2236-8	Calciferol:MCnc:Pt:Se	VITAMIN D2:MCNC:PT:SER/PLAS:QN::CALCIFEROL;ERGOALCIFEROL;ERCALCIOL:CHEM
47094-8	Calciferol:SCnc:Pt:Se	VITAMIN D2:SCNC:PT:SER/PLAS:QN::CALCIFEROL;ERGOALCIFEROL;ERCALCIOL:CHEM
14566-4	Calcitriol:SCnc:Pt:Ser	1,25-DIHYDROXYVITAMIN D3:SCNC:PT:SER/PLAS:QN::CALCITRIOL:CHEM
1990-1	Cholecalciferol:MCnc:	VITAMIN D3:MCNC:PT:SER:QN::CHOLECALCIFEROL;C27H43OH:CHEM
33958-0	Cholecalciferol:SCnc:	VITAMIN D3:SCNC:PT:SER:QN::CHOLECALCIFEROL;C27H43OH:CHEM
35365-6	Vitamin D+Metabolite:	VITAMIN D+METABOLITES:MCNC:PT:SER/PLAS:QN::CHEM
1679-0	24r-Hydroxycalcidiol:I	24R-HYDROXYCALCIDIOL:MCNC:PT:SER:QN::24,25-DIHYDROXY CHOLECALCIFEROL;24,25-DIHYDROXY VITAMIN D:CHEM
2439-8	Hydroxycalcidiol:MCn	HYDROXYCALCIDIOL:MCNC:PT:SER:QN::CHEM
46269-7	25-Hydroxycalciferol:S	25-HYDROXYCALCIFEROL:SCNC:PT:SER/PLAS:QN::VITAMIN D2 METABOLITE:CHEM
49054-0	25-Hydroxycalciferol:I	25-HYDROXYCALCIFEROL:MCNC:PT:SER/PLAS:QN::VITAMIN D2 METABOLITE:CHEM

NOTE:

The 1,25 diOH have a shorter half life, and are important only in subsets of renal impairment.

Calcitriol = 1,25-dihydroxyvitamin D3 from the web research
The 25-OH are the storage form of the vitamin, and more appropriate for screening

Calcidiol= 25-hydroxyvitamin D3 from the web research

Calcidiol= 25-hydroxyvitamin D3 Calciferol=PROHORMONE Vitamin D2
Calcidiol= 25-hydroxyvitamin D3 Calciferol=PROHORMONE Vitamin D2
Calcidiol= 25-hydroxyvitamin D3 from the web research
Calcidiol= 25-hydroxyvitamin D3 from the web research
Calcidiol= 25-hydroxyvitamin D3 from the web research
Calciferol=Vitamin D2 from the web research (ergocalciferol & ercalciol)
Calciferol=Vitamin D2 from the web research (ergocalciferol & ercalciol)
Calciferol=Vitamin D2 from the web research (ergocalciferol & ercalciol)
Calcitriol = 1,25-dihydroxyvitamin D3 from the web research
Cholecalciferol=Vitamin D3 from the web research
Cholecalciferol=Vitamin D3 from the web research
?? Is this total of all?

Is this the same as 25-HYDROXYVITAMIN D2:MCNC:PT:SER:QN::CHEM
<http://medical-dictionary.thefreedictionary.com/25-hydroxycholecalciferol>
<http://www.Meriam-sebster.com/medical/25-hydroxycholecalciferol>

Vitamin D Nomenclature

Active Vitamin D Compounds	Properties	Names
1,25(OH) ₂ D ₃	Do not require activation	Calcitriol
19-nor-1,25-dihydroxyvitamin D ₂	Bind with high affinity to VDR	Paricalcitol
22-oxacalcitriol		Maxicalcitol*
Inactive Vitamin D Compounds	Properties	Names
Vitamin D ₂	Require activation by liver/kidneys	Ergocalciferol
Vitamin D ₃	Lack high affinity binding to VDR	Cholecalciferol
25(OH)D ₃		Calcifediol
1α-(OH)D ₂		Doxercalciferol

1 α -(OH)D₃

Alphacalcidol

*Not available in the United States.
VDR=vitamin D receptor.
Andress DL. *Semin Dial.* 2005;18:315-321.

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Formation of Active Vitamin D

Naturally Occurring Vitamin D		Prohormones	
D ₂ ergosterol	D ₃ 7-dehydrocholesterol	1 α -(OH)D ₂ doxercalciferol	1 α -(OH)D ₃ alfacalcidol
↓	↓	↓	↓
Vitamin D ₂	Vitamin D ₃		
↓	↓	↓	↓
ergocalciferol	cholecalciferol		
↓	↓	↓	↓
25-(OH)D ₂	25-(OH)D ₃		
↓	↓	↓	↓
1,25-(OH) ₂ D ₂	1,25-(OH) ₂ D ₃ (calcitriol)	1,25-(OH) ₂ D ₂	1,25-(OH) ₂ D ₃ (calcitriol)
Active D ₂	Active D ₃	Active D ₂	Active D ₃

The diagram illustrates the metabolic pathways for Vitamin D. It is divided into two main sections: 'Naturally Occurring Vitamin D' and 'Prohormones'.
1. **Naturally Occurring Vitamin D:**
- **D₂ pathway:** ergosterol is converted to Vitamin D₂, then to ergocalciferol, then to 25-(OH)D₂, and finally to the active form 1,25-(OH)₂D₂ (Active D₂).
- **D₃ pathway:** 7-dehydrocholesterol is converted to Vitamin D₃, then to cholecalciferol, then to 25-(OH)D₃, and finally to the active form 1,25-(OH)₂D₃ (calcitriol) (Active D₃).
2. **Prohormones:**
- **1 α -(OH)D₂ (doxercalciferol):** This pro-hormone is converted to the active form 1,25-(OH)₂D₂ (Active D₂).
- **1 α -(OH)D₃ (alfacalcidol):** This pro-hormone is converted to the active form 1,25-(OH)₂D₃ (calcitriol) (Active D₃).
3. **Associated Icons:** A sun icon is placed between the D₂ and D₃ pathways. A liver icon is placed between the Vitamin D₃ and cholecalciferol steps. A kidney icon is placed between the 25-(OH)D₃ and 1,25-(OH)₂D₃ steps.