

INDEPENDENT

VERIFICATION REPORT

Vitamin D3

Capsule / 1000 IU per capsule

DOCUMENT SCOPE

Published reference

Not a customer-batch report



REPORTED PANELS

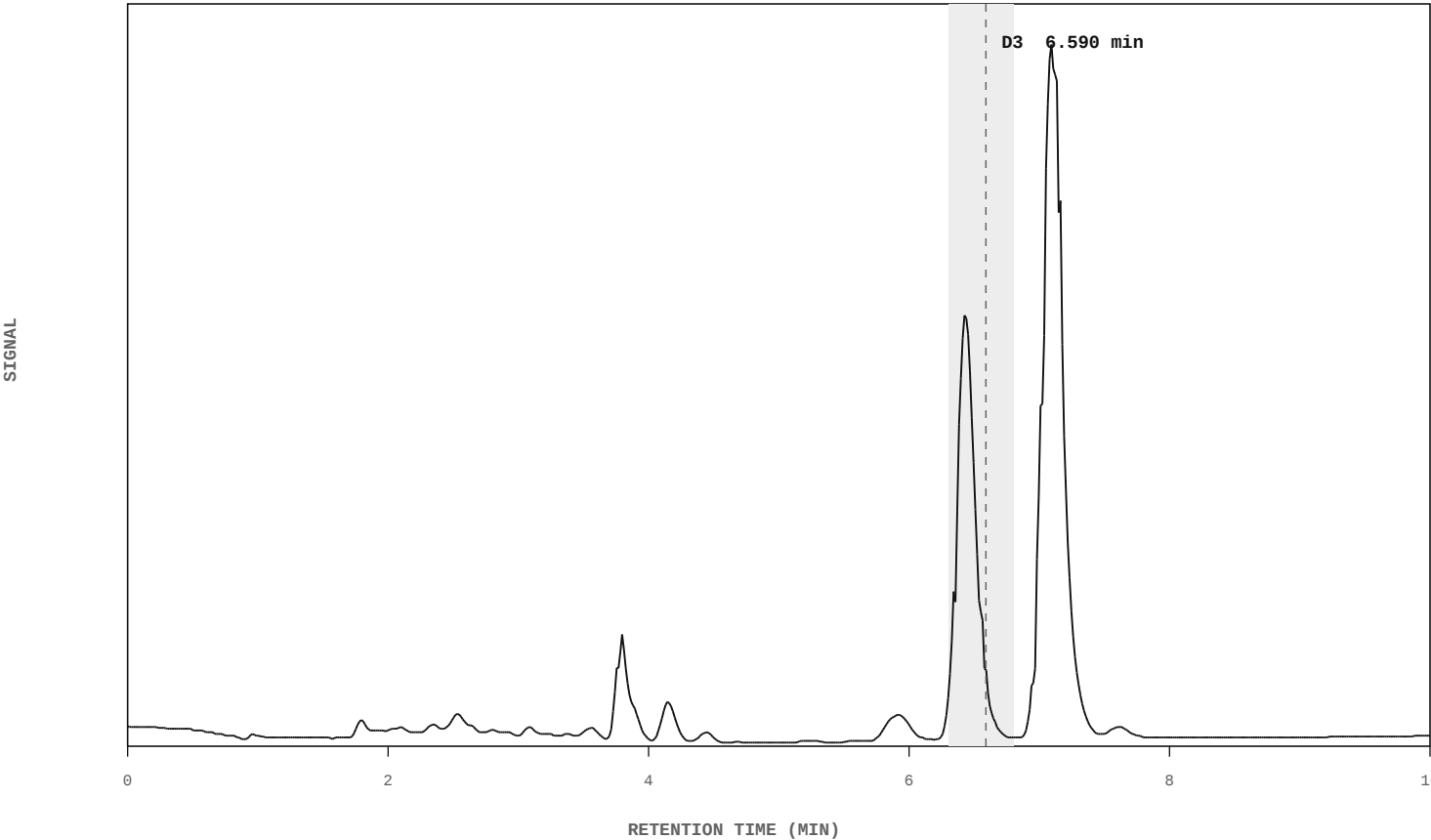
PANEL	RESULT	READ	EVIDENCE
IDENTITY	Supported	Cholecalciferol reported at 6.590 min.	Published reference / Figure 3
POTENCY	1028 IU / 103%	The published sample supports the stated identity and potency example.	Published reference / Table 8
HEAVY METALS	Not evaluated	The online threshold module is an interface teaching example.	No sample measurement
MICROBIALS	Not evaluated	The online plate and organism module is a teaching example.	No sample measurement

CONCLUSION

Published evidence supports identity and potency for the cited reference sample. A customer-batch verdict is not established because no customer batch was submitted and supplemental panels were not measured.

CHROMATOGRAPHIC EVIDENCE

The line below is vector-rendered from the digitized published chromatogram. It preserves the trace as data rather than embedding a screenshot.



HOW TO READ THIS TRACE

01 / WHERE

Retention time helps identify the compound. The publication labels cholecalciferol at 6.590 min.

02 / AREA

Peak area is compared with standards to quantify the compound. The picture alone is not the potency calculation.

03 / TABLE

The 25.7 ± 0.57 μg result and 103% recovery are reported in publication Table 8.

DIGITIZATION NOTE

The digitized trace apex is approximately 6.431 min because the source raster and axis calibration are approximate; the reported publication value is 6.590 min and remains the cited result.

METHODS & EVIDENCE REGISTER

Demo record: Vitamin D3 potency and chromatogram values come from the cited published reference sample; supplemental heavy-metal and microbial panels are illustrative. This is not an Analyte customer batch.

ANALYTICAL METHOD

UHPLC-DAD · Acclaim C30

Becze et al., Molecules (2021)

Identity is read from the reported chromatographic retention time. Potency is taken from the publication's replicated quantitative results and converted from micrograms at 40 IU/μg.

EVIDENCE

01	Published Vitamin D3 reference sample Becze et al., Molecules 26 (2021), Figure 3 and Tables 8–9, sample DS-CHL@MK4	This published reference supports the Vitamin D3 chromatogram and potency example. It is not a test of an Analyte customer batch.
02	USP Oil- and Water-Soluble Vitamins Capsules standard USP-NF, Oil- and Water-Soluble Vitamins Capsules monograph	Supports only the 90.0%–165.0% accepted range for oil-soluble vitamin label claim in capsules.
03	Illustrative supplemental widget panels Analyte product demonstration fixture; limits reference USP <2232>, <2021>, and <2022>	Heavy-metal and microbial values are illustrative supplemental panels for the widget. They are not laboratory results for an Analyte customer batch.

PUBLICATION REVIEW

Completed

10 Jul 2026 / record revision 1

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