Waters
Lab Highlights
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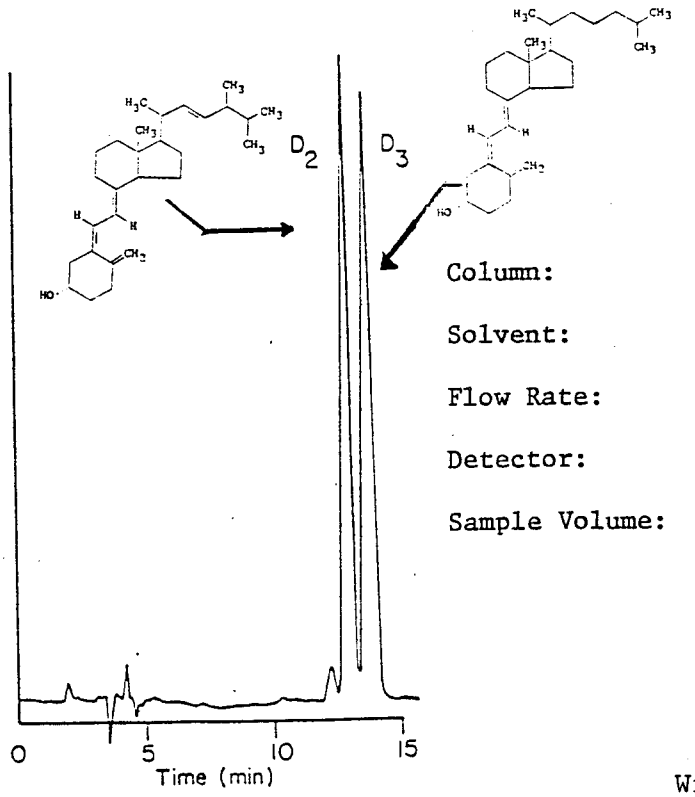
DETERMINATION OF VITAMIN D_2 AND D_3 USING RCSS

The determination of Vitamin D and the resolution of its various forms is of particular importance in nutritional studies. Vitamin D is added routinely to many foods and animal feeds and its determination has long been the object of analytical techniques.

A recent publication (1) by Thompson, Maxwell, et al describes an improved method for determination of both Vitamin D_2 and D_3 from milk and milk products and presents a baseline separation of Vitamin D_2 and D_3 in 15 minutes, using the RCSS. Previously, this separation was not accomplished using many other commercial C_{18} columns.

The chromatogram and conditions are shown below



Column:	Radial PAK C_{18} (8mm X 10cm, 5µ)
Solvent:	Methanol
Flow Rate:	1 ml/min.
Detector:	Waters M440, 254nm
Sample Volume:	50µl

William Maxwell 9/22/81
Waters Scientific Ltd. (Canada)

(1) J. N. Thompson, G. Hatina, W. Maxwell, S. Duval, Determination of Vitamin D in Fortified Milks, Margarine, and Instant Formulas by HPLC, Health and Welfare Canada, Tunnys Pasture, Ottawa, Ont. in press