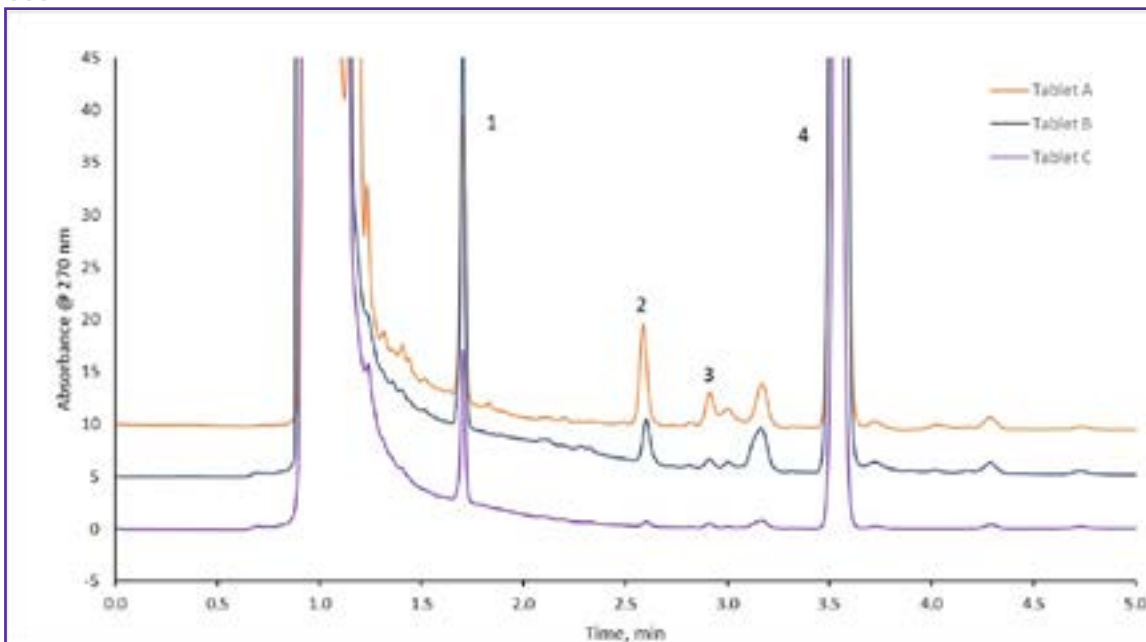




Separation of Fat-Soluble Vitamins in Immune Support Supplements

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TEST CONDITIONS:

Column: HALO 160 Å C30, 2.7 μm , 4.6 x 150 mm
 Part Number: 92114-730
 Mobile Phase: Methanol
 Flow Rate: 1.5 mL/min
 Pressure: 356 bar
 Temperature: 30 °C
 Detection: UV, 270 nm
 Injection Volume: 5.0 μL
 Sample Solvent: Methanol
 Response Time: 0.025 sec.
 Flow Cell: 1 μL
 LC System: Shimadzu Nexera X2

PEAK IDENTITIES

1. Retinyl acetate (Vitamin A)
2. Cholecalciferol (Vitamin D3)
3. Alpha-Tocopherol (Vitamin E)
4. DL-alpha tocopherol acetate (Vitamin E)

Immune support tablets are abundant with vitamins which are nutrients essential for physiological health. Fat-soluble vitamins are included in the tablet formulations. The HALO® C30 column allows for quick and efficient separation of fat-soluble vitamins in three different immune support tablets: A, B, and C. Differences between the three tablets can be identified, which are useful for confirmation of content information indicated on the product labels. For instance, tablet A has the most Vitamin D and E while tablet B has the most Vitamin A. However, tablet C contains minimal fat-soluble vitamin content compared to the others. The HALO® C30 column is useful for the separation of fat-soluble vitamins.

