



**Mobile Phase:**

A: DI Water / 0.1% Formic Acid (v/v)

B: Acetonitrile / 0.1% Formic Acid (v/v)

**Gradient:**

Time (minutes)	%B
0	70
1	70
6	90
9	60
10	70

**Post Time:** 3 minutes**Injection vol.:** 10 $\mu$ L**Flow rate:** 1.0 mL / minute**Detection:** UV @ 452 nm

**Sample Preparation:** A Beta-carotene capsule was opened and the contents were transferred to a 25mL volumetric flask containing a portion of Methanol. The solution was sonicated 15 minutes and diluted to mark with Methanol. After mixing, a portion was filtered with a 0.45 $\mu$ m Nylon Syringe Filter (MICROSOLV Tech Corp.).

**t<sub>o</sub>:** 0.9 minutes

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**Note:** Beta-carotene is found in many fruits and vegetables. It is responsible for the orange color in carrots, pumpkins, sweet potatoes, and others. In terms of nutrition, Beta-carotene is a metabolic precursor to Vitamin A.

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**Attachment No 269 B-Carotene Capsule pdf** 0.3 Mb [Download File](#)

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