**Lab Dept:** Chemistry

**Test Name:** VITAMIN K1

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### General Information

**Lab Order Codes:** VK

**Synonyms:** Vitamin K; Phylloquinone

**CPT Codes:** 84597 – Vitamin K

**Test Includes:** Vitamin K1 level reported in ng/mL.

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### Logistics

**Test Indications:** Monitor Vitamin K1 levels, assessment of circulating Vitamin K1 concentration.

**Lab Testing Sections:** Chemistry - Sendouts

**Referred to:** Mayo Medical Laboratories (Mayo Test# VIK1)

**Phone Numbers:**
- MIN Lab: 612-813-6280
- STP Lab: 651-220-6550

**Test Availability:** Daily, 24 hours

**Turnaround Time:** 2 - 4 days, test performed Monday - Friday

**Special Instructions:** See Patient Preparation

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### Specimen

**Specimen Type:** Blood

**Container:** Red top tube

**Draw Volume:** 6 mL (Minimum: 2.2 mL) blood

**Processed Volume:** 2 mL (Minimum: 0.75 mL) serum

**Collection:** Routine venipuncture. Protect from light. Avoid hemolysis. Forward specimen to laboratory promptly.
Special Processing: Lab Staff: Centrifuge specimen immediately. Remove serum aliquot into a Mayo Supply T192 amber vial. Store and ship at refrigerated temperatures. Forward promptly. Specimen needs to be protected from the light at all times.

Patient Preparation: Fasting sample recommended (12 – 14 hour fast), infants should be drawn prior to next feeding.

Patient should not consume alcohol for 1 day prior to blood draw or consume supplements containing Vitamin K.

Sample Rejection: Gross hemolysis; mild or gross lipemia; mislabeled or unlabeled specimens

<table>
<thead>
<tr>
<th>Interpretive</th>
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<tbody>
<tr>
<td>Reference Range:</td>
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<tr>
<td>&lt;18 years:</td>
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<tr>
<td>&gt; or = 18 years:</td>
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Interpretation: Low vitamin K1 concentrations in the serum are indicative of insufficiency and poor vitamin K1 status.

Critical Values: N/A

Limitations: Testing of non-fasting specimens or the use of vitamin K1 supplementation can result in elevated serum vitamin K1 concentrations.

Methodology: Liquid Chromatography-Tandem Mass Spectrometry (LC-MS/MS)

References: Mayo Medical Laboratories Web Page April 2013

Updates: 4/3/2013: Testing moved from ARUP to internal at MML. Method previously listed as HPLC.