
Lab Dept: Chemistry

Test Name: VITAMIN K1

General Information

Lab Order Codes: VK

Synonyms: Vitamin K; Phylloquinone

CPT Codes: 84597 – Vitamin K

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

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: VITK1)

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](#)

Specimen

Specimen Type: Blood

Container: SST (Gold, marble or red) 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

Interpretive

Reference Range:

<18 years:	Not established
> or = 18 years:	0.10 – 2.20 ng/mL
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](#) November 2017

Updates: 4/3/2013: Testing moved from ARUP to internal at MML. Method previously listed as HPLC.
11/14/2017: Collection container update.