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

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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.