
Lab Dept: Chemistry

Test Name: VENOUS PH

General Information

Lab Order Codes: VPH

Synonyms: Venous pH

CPT Codes: 82800 - Gases, blood, pH only

Test Includes: pH on venous blood

Logistics

Test Indications: Useful for evaluating acid/base balance, especially in diabetic ketoacidosis.

Lab Testing Sections: Chemistry

Phone Numbers: MIN Lab: 612-813-6280

STP Lab: 651-220-6550

Test Availability: Daily, 24 hours

Turnaround Time: 30 minutes

Special Instructions: See [Collection](#) and [Patient Preparation](#)

Specimen

Specimen Type: Whole blood

Container: **Preferred:** Sims Portex® syringe (PB151) or Smooth-E syringe (956-463)

Draw Volume: 0.4 mL (Minimum: 0.2 mL) blood

Processed Volume: 0.2 mL blood

Collection: Draw blood into blood gas syringe. Avoid use of a tourniquet. **Immediately** remove all air from syringe, remove needle, cap tightly, and mix. Forward immediately at ambient temperature.

Special Processing:	Lab Staff: Deliver the specimen to the blood gas testing station. Testing must be completed within 30 minutes of collection, or the sample should be placed in an ice slurry.
Patient Preparation:	The patient should be in a relaxed and steady state.
Sample Rejection:	Mislabeled or unlabeled specimens; non-heparinized samples; collection times exceeding 30 minutes and clotted samples; specimens containing air

Interpretive

Reference Range:	PH: 7.31 - 7.41
Critical Values:	pH: <7.2 or >7.6
Limitations:	N/A
Methodology:	Ion-Selective Electrode
References:	Tietz Norbert (1999) Clincial Guide to Laboratory Tests, 3 rd edition, WB Saunders Co ABL800 FLEX Operator's Manual from software version 6.10 201410 ABL90 FLEX Operator's Manual software version 3.1xx 201403 Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp