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**Lab Dept:** Chemistry

**Test Name:** VENOUS PH

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***General Information***

**Lab Order Codes:** VPH

**Synonyms:** Venous pH

**CPT Codes:** 82800 - Gases, blood, pH only

**Test Includes:** pH on venous blood

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***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](#)

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***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.

<b>Special Processing:</b>	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.
<b>Patient Preparation:</b>	The patient should be in a relaxed and steady state.
<b>Sample Rejection:</b>	Mislabeled or unlabeled specimens; non-heparinized samples; collection times exceeding 30 minutes and clotted samples; specimens containing air

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### ***Interpretive***

<b>Reference Range:</b>	PH: 7.31 - 7.41
<b>Critical Values:</b>	pH: <7.2 or >7.6
<b>Limitations:</b>	N/A
<b>Methodology:</b>	Ion-Selective Electrode
<b>References:</b>	Tietz Norbert (1999) Clincial Guide to Laboratory Tests, 3 <sup>rd</sup> edition, WB Saunders Co  ABL800 FLEX Operator's Manual from software version 6.00  Jacobs & DeMott Laboratory Test Handbook (2001) Lexi-Comp