New York State Department of Health  
Clinical Laboratory Standards of Practice  
Specialty Requirements by Category

**Blood pH and Gases**

<table>
<thead>
<tr>
<th>Former Standard and Guidance</th>
<th>Proposed Standard and Guidance</th>
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<tbody>
<tr>
<td>The following specialty sustaining standards of practices shall be incorporated into the laboratory’s quality management system, where applicable to the scope of services provided. Effective August 5, 2016</td>
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**Blood pH and Gases Standard 1 (BP S1)**

Unless an Individualized Quality Control Plan is established in accordance with Quality Control Sustaining Standard of Practice S1 (QC Design S1): Design of Individualized Quality Control Plan, for all blood gas instruments:

- a) three levels of control shall be used on each day of testing, and a minimum of one control shall be run each eight hours of testing; and
- b) a control or calibrator shall be run with each patient unless the blood gas instrument internally verifies the calibration at a minimum of every 30 minutes.

**Blood pH and Gases Standard of Practice 1 (BP S1): Quality Control Requirements**

Unless an Individualized Quality Control Plan (IQCP) is established according to Quality Control Standards of Practice 2, 3 and 4, for all blood gas instruments the laboratory must:

- a) test three (3) levels of controls on each day of testing, and a minimum of one (1) control each eight (8) hours of testing; and
- b) test a control or calibrator with each patient unless the blood gas instrument internally verifies the calibration every thirty (30) minutes at a minimum.