

566-2009 ADDENDUM 1

SUPPLY AND INSTALLATION OF AN AUTOMATED TITRATION SYSTEM FOR THE DETERMINATION OF PH, ALKALINITY, HARDNESS, FLUORIDE AND CONDUCTIVITY

URGENT

ISSUED: July 23, 2009
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PLEASE FORWARD THIS DOCUMENT TO WHOEVER IS IN POSSESSION OF THE BID OPPORTUNITY

THIS ADDENDUM SHALL BE INCORPORATED INTO THE BID OPPORTUNITY AND SHALL FORM A PART OF THE CONTRACT DOCUMENTS

Please note the following and attached changes, corrections, additions, deletions, information and/or instructions in connection with the Bid Opportunity, and be governed accordingly. Failure to acknowledge receipt of this Addendum in Paragraph 8 of Form A: Bid may render your Bid non-responsive.

PART A - BID SUBMISSION

Replace: 566-2009 Bid Submission with 566-2009 Addendum 1 - Bid Submission. The following is a summary of changes incorporated in the replacement Bid Submission:

Form B(R1): Add Item 24 - Transfer Pipette

Page numbering on some forms may be changed as a result.

PART E - SPECIFICATIONS

Add: E2.2(I)

E2.2(I) analyzing five (5) parameters (not necessary to run continuously on one sample before advancing to the next

sample).

Add: E2.3.1

E2.3.1 Correct volumes of titrant must be dispensed.

Revise E2.9 to read:

E2.9 Item No. 8- Sample cups shall be:

- (a) A minimum of twenty (20), between 50 to 100 mL polyethylene or polypropylene cups
- (b) A minimum of twenty (20), between 50 to 100 mL glass beakers

Revise E2.10 to read:

E2.10 Item No. 9 – pH Electrode (sensor) shall:

- (a) be a combined pH and reference electrode with readout in pH or mV;
- (b) be capable of a sensitivity of 0.1 mV;
- (c) have recognition capability;
- (d) have automatic recognition of pH buffers;
- (e) capable of updating the firmware using a USB device.

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Revise E2.11 to read:

- E2.11 Item No. 10 Photometric Electrode shall be:
 - (a) capable of five selectable wavelengths;
 - (b) capable of automated determination of metal ions with EDTA;
 - (c) capable of recognition;
 - (d) capable of updating the firmware using a USB device.

Revise E2.12 to read:

- E2.12 Item No. 11 Fluoride Selective Electrode shall be:
 - (a) a specific ion electrode for the measurement of Fluoride by direct calibration and by standard addition;
 - (b) capable of recognition;
 - (c) capable of updating the firmware using a USB device;
 - (d) capable of automatic recognition of Tisab buffers.

Revise E2.13 to read:

- E2.13 Item No. 12 Reference Electrode shall be:
 - (a) capable of updating the firmware using a USB device;
 - (b) capable of recognition.

Revise E2.15 to read:

- E2.15 Item No. 14 Conductivity Electrode shall be:
 - (a) for the measurement of specific conductance in aqueous solution in the range of 10 uS/cm to >100 mS/cm;
 - (b) capable of having a resolution of .001 mS or .01 uS;
 - (c) capable of updating the firmware using a USB device;
 - (d) capable of recognition.

Revise E2.17 to read:

E2.17 Item No. 16 – Redox Electrode shall be a platinum ring electrode with **recognition capability** for reduction-oxidation titrations.

Revise E2.24 to read:

E2.24 Item No. 23 – Manual Titration Kit shall have the capability to manually control titrations which includes manual operation of: titrants, concentration, drive, fill rate, sensor, temperature, unit selection.

Add E2.25

E2.25 Item No. 24 – Transfer Pipette (if necessary) shall automatically pipette volumes from 10 mL to 50 mL from a beaker to an external vessel for titrations