





Urine Specific Gravity: Zero Set Procedure for ATAGO Pocket PAL-10S

Purpose:

This procedure provides instructions for how to perform zero set on the ATAGO Pocket PAL-10S digital refractometer. This is performed whenever the refractometer does not give a specific gravity reading of 1.000 for distilled water.

Materials and Equipment:

Item		Supplied By
Disposable Gloves		Ward
Distilled Water (DH2O), One-month open bottle expiry, Room temperature		Ward (0.5L) PS Order # 00020518 (1.0L) PS Order # 00024769
ATAGO® PAL-10S Pocket Urine Refractometer		POCT Lab
Disposable syringes		Ward PS Order # 00019548
Lint-free Tissues		Ward PS Order # 00021152

PHSA Laboratories CW Site - Point of Care
Title: CWPC_USG_0130 Urine Specific Gravity Zero Set Procedure

Procedure:

Action		Related Documents Title Number						
1.	Put on disposable gloves.							
2.	Obtain the current month's Urine Specific Gravity: Quality Control Record Form.	Urine Specific Gravity: Quality Control Record Form						
3.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">If the DH2O bottle</td> <td>Then</td> </tr> <tr> <td>was opened within the last month</td> <td>proceed to next step.</td> </tr> <tr> <td>has been opened for longer than one month</td> <td> the DH2O needs to be replaced. <ul style="list-style-type: none"> a) Discard the old DH2O bottle. b) Write today's date on the new DH2O bottle and document lot # and open date on the form. c) Proceed to next step. </td> </tr> </table>	If the DH2O bottle	Then	was opened within the last month	proceed to next step.	has been opened for longer than one month	the DH2O needs to be replaced. <ul style="list-style-type: none"> a) Discard the old DH2O bottle. b) Write today's date on the new DH2O bottle and document lot # and open date on the form. c) Proceed to next step. 	
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4.	Record today's date and time on the form.							
5.	Place the digital refractometer on a flat, stationary surface for testing.							
6.	Clean the prism surface by adding a few drops of DH2O onto the prism with a disposable syringe. Wipe and dry the prism with tissue carefully to avoid scratching the prism surface.							
7.	Add approximately 0.3mL of DH2O onto the prism. Press the ZERO key. The refractometer will reset and display "1.000".							
8.	Wipe and dry the prism with tissue.							
9.	Confirm zero set by adding approximately 0.3mL of DH2O onto the prism. Press the START key.							
10.	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">If the display shows a value of</td> <td>Then</td> </tr> <tr> <td>1.000</td> <td> <ul style="list-style-type: none"> • record "1.000 ZS" on form under the DH2O result column • wipe and dry the prism with tissue • proceed to quality control testing. </td> </tr> <tr> <td><1.000 or >1.000</td> <td> <ul style="list-style-type: none"> • record result on form • write "N" under the "DH2O & both levels within acceptable range?" column and your Operator ID # on form • wipe and dry the prism with tissue </td> </tr> </table>	If the display shows a value of	Then	1.000	<ul style="list-style-type: none"> • record "1.000 ZS" on form under the DH2O result column • wipe and dry the prism with tissue • proceed to quality control testing. 	<1.000 or >1.000	<ul style="list-style-type: none"> • record result on form • write "N" under the "DH2O & both levels within acceptable range?" column and your Operator ID # on form • wipe and dry the prism with tissue 	Urine Specific Gravity: Quality Control Testing Procedure
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Medical Approval: Dr Benjamin Jung Version: 1.2 Folder Name: CW\Point of Care\Urine Specific Gravity This is a controlled document for CW use only. Any printed copies are uncontrolled unless specified. Please refer to Lab QMS	Medical Approval Date: 28 Dec 2016 Implementation Date: 1/2/2020 11:57:14 AM
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	Action	Related Documents Title Number
	<ul style="list-style-type: none">• repeat step 4 to 9	

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Support Contact:

POCT Technologist email POCTLab@cw.bc.ca local 7521 or after hours contact local 7850.

References:

1. ATAGO Instructions of Urine Specific Gravity Refractometer URIVON-Ne
2. Textbook of Clinical Chemistry. Norbert W.Tietz 1986 WB Saunders.

REVISION LOG

Version	Revision Type	Description of Change	Revision Date	Technical Approval	Medical Approval
1.0		New document	Nov 2013	Elvira Kozak	Dr. Cathy Halstead
1.1	Minor	Document title and number change. Upload to QMS document control	28 Dec 2016		Dr. Benjamin Jung
1.2	Minor	Reformatted and reworded, added POCT contact	Jan 02, 2020	Diane Sze	

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