

Urine Specific Gravity: Zero Set Procedure

Atago Pocket- PAL 10S

PURPOSE:


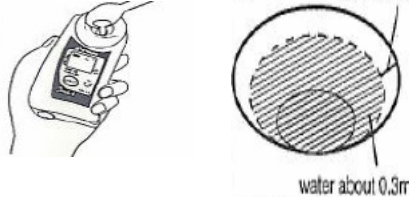
Perform Zero Set to calibrate the Digital Refractometer to 1.000 with Distilled Water.



Perform each day prior to patient testing, and weekly with Quality Check when not in use.

REQUIRED MATERIALS - See Appendix H Supply List. Dirty Utility Room on the ward or unit.

- 1) ATAGO "Pocket" PAL-10S Urine Specific Gravity Digital Refractometer.
- 2) Distilled (Sterile) Water – DH₂O – 0.5 or 1L bottle.
- 3) Plastic Dropper – wide tipped.
- 4) Tissue – Kim Wipes - Lab Quality Lint free, non-abrasive.
- 5) Test Tubes with rack.
- 6) Gloves

PROCEDURE:

	Action	Related Documents Title Number
1.	Assemble required materials. Wear Gloves.	DH ₂ O is at room temperature. DH ₂ O open bottle expiry is one month.
2.	Obtain Form A: Zero Set and Quality Control Record Form.	Record the date and time. Urine Specific Gravity: Form A - Zero Set and Quality Control, Clinic
3.	Pour an aliquot of DH ₂ O into a test tube.	To clean the prism surface. To Set Zero.
4.	Clean the prism surface: <ul style="list-style-type: none"> • Add a few drops of DH₂O onto the prism with a dropper. • Wipe the surface clean with tissue. Dry. Note: Avoid scratching the surface of the prism.	
5.	Add approximately 0.3 mL of DH ₂ O onto the prism surface with a dropper. <ul style="list-style-type: none"> • approximately 3 to 4 drops. • Press the START key. "---" will appear followed by display of the measured value with temperature. DH ₂ O	 <p style="text-align: center;">water about 0.3ml</p>

6.	<i>if</i>		<i>Then</i>	
		Display indicates "1.000" the Zero setting does not need to be performed. <ul style="list-style-type: none"> • Wipe the water off the tissue surface with tissue. • Go to Step 7. 		
	7.	Displayed value is not "1.000" - instrument requires calibration. <ul style="list-style-type: none"> • Press ZERO key with the water left on the prism. • Instrument will reset and display "1.000". • Wipe the water off the tissue surface with tissue. • Go to Step 5. to confirm the ZERO SET adjustment. 		
	8.	Record on Form A the water specific gravity and if an adjustment was made to set Zero.		FORM A
	9.	ATAGO "Pocket" PAL-10s Digital Refractometer is ready for Daily Quality Check.		

REFERENCES:

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

REVISION & APPROVAL LOG

Version	Revision Type	Description of Change	Revision Date	Technical Approval	Medical Approval
1.0		New document		Elvira Kozak	Dr. Cathy Halstead
1.1	Minor	Document title and number change. Upload to QMS document control	28 Dec 2016		Dr. Benjamin Jung

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