

STANTON TERRITORIAL HEALTH AUTHORITY

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TITLE:	Revision Date:	Issue Date:
Nova Biomedical Glucose / Ketone Meter	07-July-2016	07-July-2014
Linearity Test		-
Document Number: POC20601	Status: Approved	
Distribution: Point of Care Testing Manual	Page: 1 of 5	
Approved by:	Signed by:	1 Plant
C. Case, Manager Diagnostic Services	Chi ch	heyl Case
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Yellowknife, Northwest Territories

PURPOSE:

Linearity testing is performed on a bi-annual basis to ensure that results generated are accurate and precise by testing samples with known analyte concentrations and evaluating the line of best fit when those results are plotted on a line graph.

POLICY:

See Quality Manual Section 6. Process Control

REAGENTS and/or MEDIA:

- Nova Biomedical StatStrip® GLU Test Strips
- Nova Biomedical StatStrip® KET Test Strips
- Nova Biomedical StatStrip® GLU KET Linearity Kit

SUPPLIES:

- Nova Biomedical StatStrip® Glucose / Ketone Hospital Meter OR
- Nova Biomedical StatStrip® Glucose Hospital Meter

SPECIAL SAFETY PRECAUTIONS:

- Handle all patient samples and testing sera using "Routine Practices".
- Please refer to the Northwest Territories Infection Prevention and Control Manual, March 2012.

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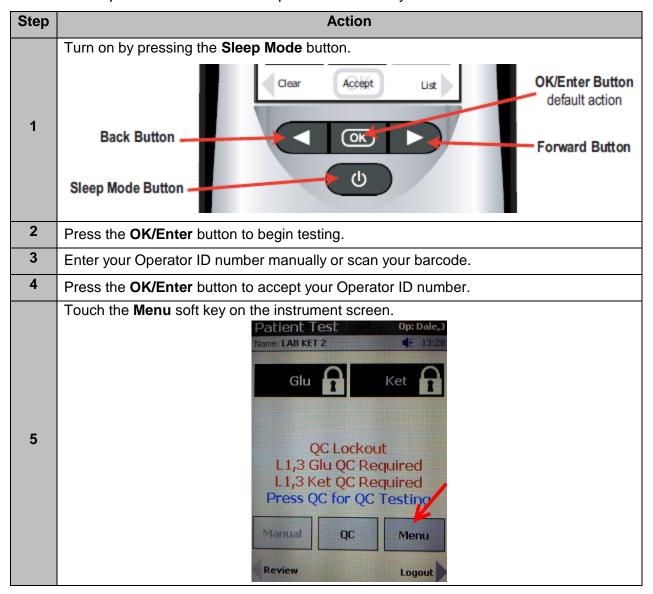
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QUALITY CONTROL:

See POC20701 Nova Biomedical Glucose / Ketone Meter Quality Control Test

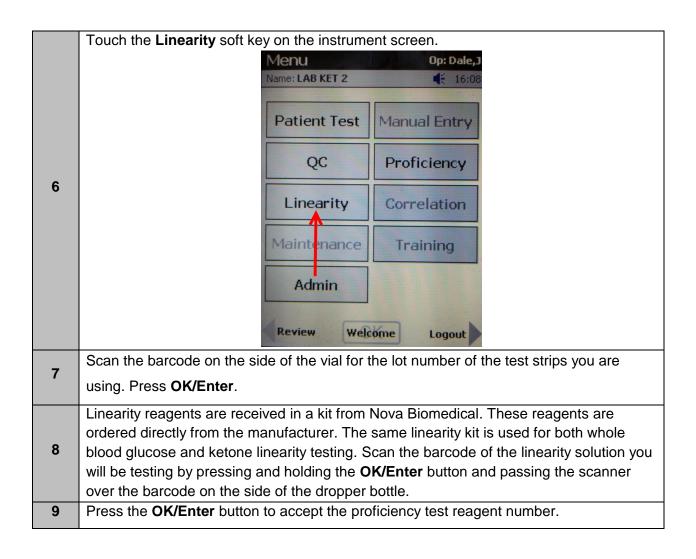
PROCEDURE INSTRUCTIONS:

Follow the steps in the table below to perform a linearity test.



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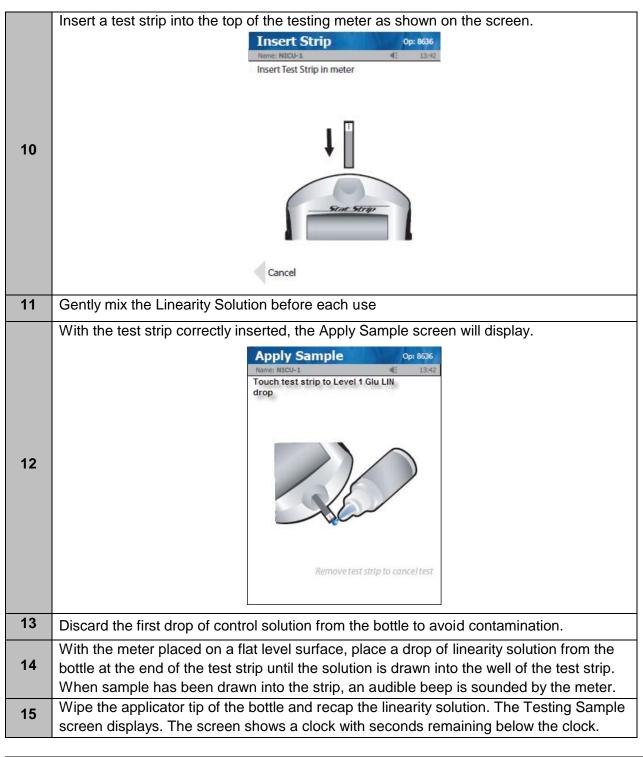
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16	The test result will appear in 6 or 10 seconds depending on which test is being performed. Do not remove the test strip until the countdown is complete. Meter results range from 0.6 – 33.3 mmol/L for glucose and <0.1 to 7.0 mmol/L for Ketones.
17	Run each level in duplicate.
18	Repeat steps 8 to 17 for the all other levels in the linearity kit.
19	Dock the meter into a connected docking station to transmit the result to the NovaNet. Results will be compiled and analyzed by the Technologist II.

RELATED DOCUMENTS:

- POC20801 Nova Biomedical Glucose / Ketone Meter Patient Test
- POC20401 Nova Biomedical Glucometer Basic Maintenance

REFERENCES:

Nova Biomedical, StatStrip® Glucose Hospital Meter, Instructions for Use Manual, Nova Biomedical Corporation, Waltham, MA, 2011

Nova Biomedical, StatStrip[™] Glucose and β-Ketone Control Solution Package Insert, Nova Biomedical UK, Cheshire, UK, 2011

REVISION HISTORY:

REVISION	DATE	Description of Change	REQUESTED BY
1.0	23 Dec 2013	Initial Release	JGD Bernier
2.0	15 May 2014	Updated to include reference to: NWT Infection Prevention & Control Manual	JGD Bernier

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