PROGRAM Standard Operating Procedure – Laboratory Services					
Title: MIC70220 –	Policy Number:				
VITEK 2 NH Card					
Program Name: Laboratory Services					
Applicable Domain: Lab, DI and Pharmacy Services					
Additional Domain(s): NA					
Effective Date:	Next Review Date:				
Issuing Authority:	Date Approved:				
Director, Laboratory and Diagnostic Imaging Services Issuing Authority					
Accreditation Canada Applicable Standard: NA					

GUIDING PRINCIPLE:

The VITEK 2 Neisseria-Haemophilus identification card (NH) is intended for the automated identification of most clinically significant fastidious organisms including *Neisseria* species and *Haemophilus* species. Results are available in approximately 6 hours.

PURPOSE/RATIONALE:

This standard operating procedure provides instructions on setting up the VITEK 2 NH card.

SCOPE/APPLICABILITY:

This standard operating procedure applies to Medical Laboratory Technologists (MLTs) using the NH card on the VITEK 2 instrument.

SAMPLE INFORMATION:

Туре	Fastidious Gram-negative organisms		
Source	18 to 24 hour culture		

REAGENTS and/or MEDIA:

Туре	VITEK 2 NH card
Stability	Stable until date of expiration indicated on the container
Storage Requirements	Store at 2°C to 8°C
Criteria for rejection	Do not use if:The expiration date has passedThere are other signs of deterioration

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SUPPLIES:

- 0.45% Saline
- Plastic VITEK tubes and caps
- Sterile swabs

EQUIPMENT:

- VITEK 2 instrument
- VITEK DENSICHEK
- Vortex mixer

SPECIAL SAFETY PRECAUTIONS:

Containment Level 2 facilities, equipment, and operational practices for work involving infectious or potentially infectious materials or cultures:

- Ensure that appropriate hand hygiene practices be used
- Lab gown must be worn when performing activities with potential pathogens
- Gloves must be worn when direct skin contact with infected materials is unavoidable
- Eye protection must be used when there is a known or potential risk of exposure of splashes
- All procedures that may produce aerosols, or involve high concentrations or large volumes should be conducted in a biological safety cabinet (BSC)
- The use of needles, syringes and other sharp objects should be strictly limited

All patient specimens are assumed to be potentially infectious. Routine Practices must be followed. Since viable micro-organisms are used, all cultures must be handled with appropriate precautions. All equipment in contact with cultures should be decontaminated by appropriate methods.

QUALITY CONTROL:

- Refer to MIC60030-VITEK 2 Quality Control for VITEK 2 QC procedures
- Refer to MIC60031-VITEK 2 Quality Control Job Aid
- Record all results on MIC60032-QC Results Record-VITEK 2

PROCEDURE INSTRUCTIONS:

Step	Action						
Settin	Setting up NH card on VITEK 2						
1	Allow cards to come to room temperature before opening the package liner.						
2	From the Start menu on the VITEK 2 computer, select FLEXPREP to start the FLEXPREP application, or double-click the FLEXprep icon on the desktop:						

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8. Click **OK** on the Confirmation dialog.

Step	Action
Loadi	ng NH card onto VITEK 2
1	Check that the green Cassette Load Station light is on. A blinking light indicates that a cassette must be unloaded before loading a new cassette. If the light is off, the instrument is not ready to accept a cassette.
2	 To avoid jams and terminated cards, check that: 1. The blue and grey sticks are inside tubes. 2. The caps on the McFarland Standard tubes are removed. 3. The cards are sitting level in the cassette slots. 4. The cassette is seated properly in the boat when loaded onto the instrument.
3	After loading the cassette, wait for the "happy sound." If the VITEK 2 detects a discrepancy in the number of cards on the cassette, the cassette will be returned to the Cassette Load Station and will not be processed.
4	After the cards are loaded, the cassette will travel back to the loading dock. Unload the cassette when light is flashing green.
5	Bring the cassette back to the VITEK 2 setup bench. From the Start menu on the VITEK 2 computer, select VITEK 2 SYSTEMS to start the VITEK 2 SYSTEMS application, or double-click the VITEK 2 SYSTEMS icon on the desktop:
	On the VITEK 2 SYSTEMS Web application, select Cassette view:
6	
7	The columns in Cassette view include a Filter icon that will allow users to filter the cassettes listed in Cassette view. Filters can be cleared from all columns using the Clear Filter icon:
8	Clear the Filters and select the filter icon for the Bench column to filter the cassettes by bench: Cassette Status Cassette Volume Cassette
9	Find the cassette and select the expand button to view the cassette isolates: The expand button is on the right hand side in the Cassette Status column.
10	Ensure the samples listed in the cassette summary match the accession numbers written on the tubes. Make purity plates using the blue or grey stick and appropriate media.

Step	Action								
Revie	viewing NH card								
1	From the Start menu on the VITEK 2 computer, select VITEK 2 SYSTEMS to start the VITEK 2 SYSTEMS application, or double-click the VITEK 2 SYSTEMS icon on the desktop:								
2	Work List view is au Web. From Work Lis active workspace:		s automati List view, e:	cally dis you car you car you car car you car car you car car	Vork List Vork List Vork List Alts Program of balance 27 Alts Program of balance 2		Sin to VITEK 2 Systems gh the isolate results in the		
	From the 1. Filter	e Work L the resi	ist, click o	equere presenter equere presenter equere presenter entre the "Co ce and se	lear Filelect ye	ters" bu	vition to 's date.	New Sea 20 2017 Med Sea 2017 M	Control Survey Color Control Control Contr
	2. Filter	the res	ults by ber	nch and	select t	he corre	ect ben	ch name.	
4	Isolate	<u>Status</u> Preli Preli Qui	Icons: minary minary, alified	 Isolate still receiving raw data readings from the instrument Isolate is not final Isolate with missing information Isolates in this status are automatically removed from the active workspace if not fixed Qualified with a green indicator means two or more isolates in the active workspace share the same Lab ID and isolate number This condition must be resolved in order to 					

	 • 	Final, Qualified To Be Reviewed	 Qualified with a red indicator means information is missing. Examples of missing information include: <<low discrimination="">></low> <<slash line="">></slash> ID and AST Offline Tests Missing Required Offline Tests Missing Organism Isolate is final and needs to be reviewed Click the Review Results icon: 			
		Approved	Isolate is final and approved			
5	If the Isolate status is not approved, double click the order in the worklist to resolve the issue. Once the issue is resolved, print the results page and click the Back icon to navigate back to Work List.					

CROSS-REFERENCES:

- MIC60030-VITEK 2 Quality Control
- MIC60031-VITEK 2 Quality Control Job Aid
- MIC60032-QC Results Record-VITEK 2

REFERENCES:

- 1. bioMérieux. (2020-04). VITEK 2 Instrument User Manual, 041387-02
- 2. bioMérieux. (2018-02). VITEK FLEXPREP Software User Manual 048984-01
- 3. bioMérieux. (2022-02). VITEK DENSICHEK User Manual, 048641-02
- 4. bioMérieux. (2021-04). VITEK 2 NH package insert, 043902-04

APPROVAL:

Date

Director, Laboratory and Diagnostic Imaging Services

REVISION	DATE	Description of Change	REQUESTED BY
1.0	07 Feb 19	Initial Release	L. Steven
2.0	04 Aug 21	Procedure reviewed and added to NTHSSA policy template	L. Steven
3.0	01 Oct 24	Procedure reviewed and updated to reflect new FLEXPREP software	L. Steven

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