| 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 | | | | | |

Uncontrolled When Printed

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:

| Type 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:

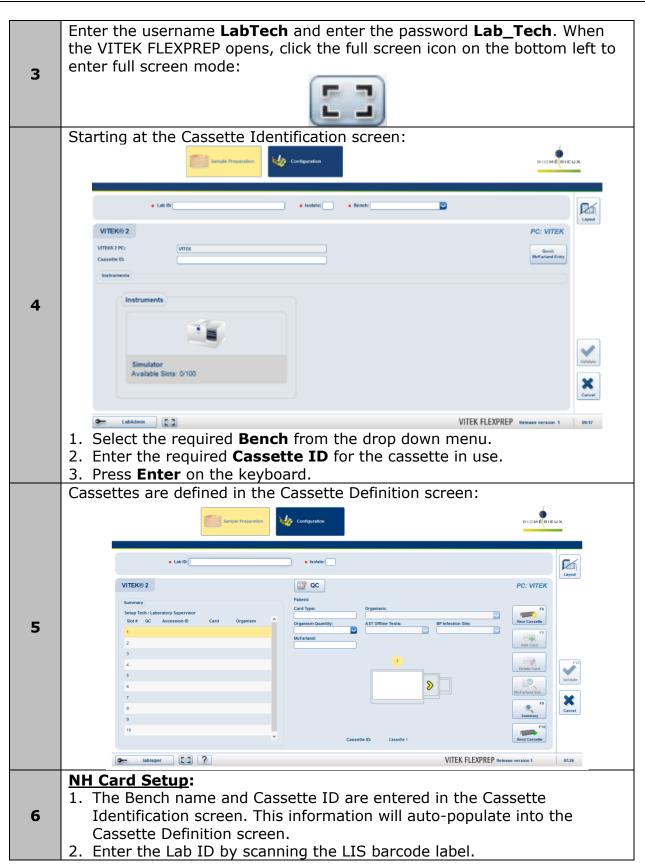
- Refer to MIC60030-VITEK 2 Quality Control for VITEK 2 QC procedures
- Refer to MIC60031-VITEK 2 Quality Control Job Aid
- Record all results on MIC60032-QC Results Record-VITEK 2

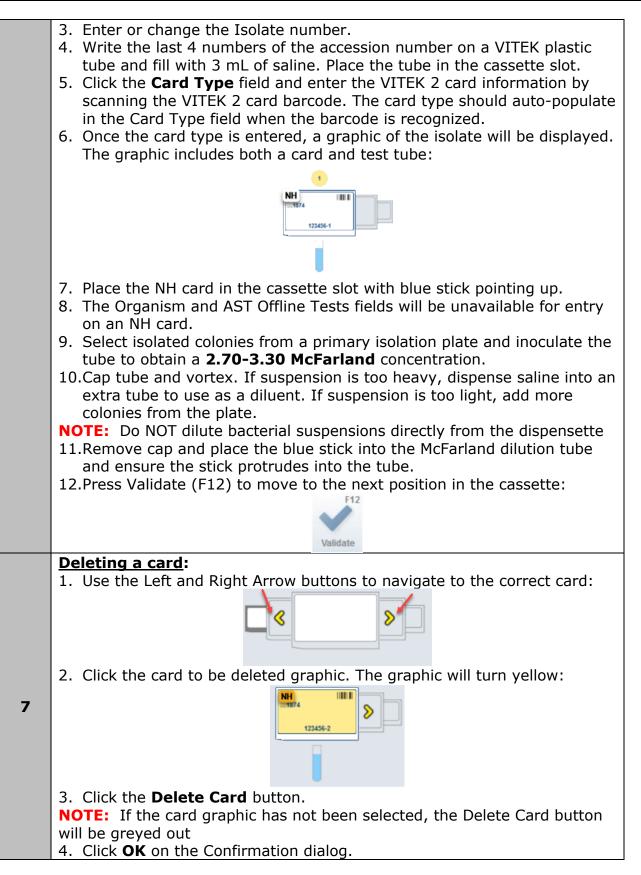
PROCEDURE INSTRUCTIONS:

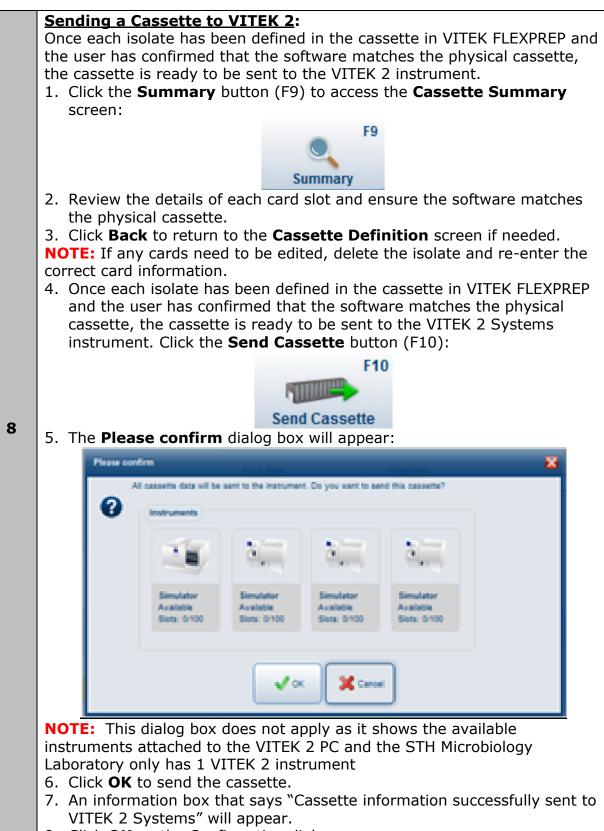
| Step | Action | | | | | | |
|--------|---|--|--|--|--|--|--|
| Settin | Setting up NH card on VITEK 2 | | | | | | |
| 1 | Allow cards to come to room temperature before opening the package liner. | | | | | | |
| 2 | From the Start menu on the VITEK 2 computer, select FLEXPREP to start the FLEXPREP 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. |
| 5 | Unload the cassette when light is flashing green. 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: |
| 6 | On the VITEK 2 SYSTEMS Web application, select Cassette view: |
| 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 © Load Date © Setup Tech © Bench © Instrument © Work Flow © Select the bench you are working on to list the cassette you have last set |
| 9 | up. Find the cassette and select the expand button to view the cassette isolates: Image: Comparison of the principle of the prin |
| 10 | The expand button is on the right hand side in the Cassette Status column. 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 | ewing 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 | |
| | Web. From Work List view, you can browse through the isolate results in the active workspace: | | | | | | | sults in the | |
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| 3 | From the Work List, click on the "Clear Filters" button to clear the filters and 1. Filter the results by date and select yesterday's date. 2. Filter the results by bench and select the correct bench name. Isolate Status Icons: | | | | | | filters and: | | |
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| | > | To Be Reviewed | 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 HISTORY: | | | | | | |
|-------------------|------------------------------|--|-----------------|--|--|--|
| REVISION | N 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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