

# Abbott Prism Next Operations Manual

## ABBOTT PRISM® Confirmatory Report

- 1) **Sample ID:**
  - For samples, the sample ID number will be taken from the barcoded pilot tube located on ABBOTT PRISM sample rack position 1, 6, 12, and 17. The number on the barcode of the pilot tube will be reflected on the corresponding 4 sample tubes. The ID can be numeric or alphabetic. Minimum of 4 characters, including the end numbers (-1, -2, -3, or -4). For the control tubes, the sample ID will be taken off of the barcode placed on the sample tubes by the technician (AC1 through AC4). If barcode is not readable, the sample ID number or barcode designation for the controls (AC1 through AC4) may be entered manually.
- 2) **Sample to Cutoff Ratio (S/CO):**
  - Sample net counts divided by the ABBOTT PRISM HBsAg Confirmatory cutoff
- 3) **Notes – Interpretation of the samples by S/CO values:**
  - a) Sample Results are designated as follows:
    - i) N = Nonreactive sample
    - ii) "R" = Reactive sample
    - iii) E = Error
  - b) Control Results are designated as follows:
    - i) N = Nonreactive control results within a defined range
    - ii) "R" = Reactive control results within a defined range
    - iii) E = Error. Error in the control tubes of a specific sample rack will not generate neutralization results for the specific sample rack, but will continue to process any other Confirmatory sample racks, if applicable
- 4) **Status:**
  - Error codes appear here. "0" indicates no error codes. If a number appears other than "0", refer to ABBOTT PRISM Operations Manual, Section 10: Troubleshooting and Diagnostics.
  - Error with processing any of the control tubes on a specific sample rack will not generate neutralization results for the specific sample rack, resulting in an error code and a interpretation of "No Result Repeat Test".
- 5) **Dark Counts:**
  - Counts reading before the addition of Activator Solution to the sample well.
- 6) **Activated Counts:**
  - Counts reading after the addition of Activator Solution to the sample well.
- 7) **Net Counts:**
  - Activated counts minus dark counts

## Abbott Prism Next Operations Manual

The Abbott Prism Next is an advanced diagnostic instrument designed for high-throughput laboratory environments. It provides healthcare professionals with rapid and reliable results in various tests, including immunoassays, molecular diagnostics, and more. Understanding the operations manual is crucial for lab technicians and healthcare practitioners to ensure proper usage, maintenance, and troubleshooting of the instrument. This article will delve into the main components of the Abbott Prism Next operations manual, including setup, operation, troubleshooting, and maintenance.

## Overview of the Abbott Prism Next

The Abbott Prism Next is part of Abbott's line of diagnostic instruments. It is designed to streamline laboratory workflows by offering:

- High throughput capabilities
- Flexible test menus
- Automated processes
- User-friendly interface

The instrument is ideal for laboratories that require fast and accurate results, making it suitable for various settings, including hospitals, clinics, and reference laboratories.

# Getting Started with the Abbott Prism Next

Before you can utilize the Abbott Prism Next, it is essential to understand its setup and initial operations. The following sections outline the necessary steps and considerations.

## Unpacking and Installation

1. **Unpacking:** Carefully remove the instrument from its packaging. Ensure that all components, including power cables and manuals, are present.
2. **Placement:** Position the instrument on a stable, level surface in a well-ventilated area. Avoid direct sunlight and extreme temperature fluctuations.
3. **Power Connection:** Connect the power cable to the instrument and plug it into a grounded outlet. Ensure the voltage matches the specifications provided in the manual.
4. **Network Setup:** Connect the instrument to the laboratory network as per the instructions. This may involve configuring Ethernet settings, which are detailed in the manual.

## Initial Configuration

Once the instrument is installed, the following initial configurations must be completed:

- **User Login:** Create user accounts as required, ensuring appropriate permissions are granted based on roles.
- **Calibration:** Perform a system calibration to ensure accuracy. This process should follow the guidelines provided in the manual.
- **Test Menu Configuration:** Set up the test menu to include the assays required for your laboratory operations.

## Operating the Abbott Prism Next

The operational phase is where the Abbott Prism Next shines, providing laboratories with efficient test processing capabilities.

## Running Tests

To run tests on the Abbott Prism Next, follow these steps:

1. **Sample Preparation:** Prepare samples according to the specifications for each assay. Ensure proper labeling and handling to avoid contamination.
2. **Loading Samples:** Open the sample compartment and load samples into the designated rack. Make sure to adhere to the maximum capacity limits.
3. **Choosing Assays:** Use the user interface to select the desired assay from the configured test menu.

4. Starting the Run: Initiate the testing process by following the on-screen prompts. Monitor the progress through the display.

## Understanding Results

Once the tests are completed, results will be displayed on the screen and can also be printed or exported. Key points to consider include:

- Result Interpretation: Familiarize yourself with the reference ranges and interpretation guidelines for each assay.
- Quality Control: Regularly run quality control tests to validate the accuracy of results, following the QC protocols outlined in the manual.

## Maintenance of the Abbott Prism Next

Proper maintenance is vital for prolonging the lifespan of the Abbott Prism Next and ensuring consistent performance.

### Routine Maintenance Tasks

- Cleaning: Regularly clean the exterior and interior components of the instrument, including sample compartments and detection systems, following the cleaning guidelines provided in the manual.
- Calibration Checks: Routine calibration checks should be scheduled according to laboratory protocols, typically at least once a month.
- Software Updates: Keep the instrument software updated. Regularly check for updates through the laboratory network or Abbott's support website.

## Troubleshooting Common Issues

Despite its reliability, users may encounter issues. The following are common problems and their solutions:

### 1. Instrument Not Powering On:

- Check the power supply and ensure the connection is secure.
- Inspect the power outlet for any faults.

### 2. Error Messages Displayed:

- Refer to the error codes section in the manual for troubleshooting steps.
- Restart the instrument if necessary.

### 3. Inconsistent Test Results:

- Verify sample preparation and handling protocols.
- Run quality control tests to determine if the instrument is calibrated correctly.

#### 4. Software Glitches:

- Restart the software application or the entire system.
- Contact technical support if issues persist.

## Technical Support and Resources

Abbott provides comprehensive technical support for users of the Prism Next. Resources include:

- User Manual: An extensive manual that covers all aspects of operation, troubleshooting, and maintenance.
- Online Support: Access to Abbott's online portal for software updates and FAQs.
- Customer Service: A dedicated support team available via phone or email for more complex issues.

## Conclusion

The Abbott Prism Next is a powerful tool in the realm of laboratory diagnostics, designed to enhance efficiency and accuracy in testing. Familiarity with the operations manual is essential for maximizing the instrument's capabilities. By following the guidelines for setup, operation, maintenance, and troubleshooting, healthcare professionals can ensure optimal performance and reliability in their diagnostic processes. With ongoing support from Abbott, users can confidently navigate the complexities of laboratory testing, ultimately leading to better patient outcomes.

## Frequently Asked Questions

### What is the purpose of the Abbott Prism Next Operations Manual?

The Abbott Prism Next Operations Manual provides essential guidelines and instructions for the operation, maintenance, and troubleshooting of the Abbott Prism Next laboratory diagnostic system.

### Where can I find the latest version of the Abbott Prism Next Operations Manual?

The latest version of the Abbott Prism Next Operations Manual can typically be found on the official Abbott website or through authorized Abbott distribution channels.

### What are the key sections included in the Abbott Prism Next Operations Manual?

Key sections of the manual usually include system setup, calibration procedures, maintenance schedules, troubleshooting tips, and safety guidelines.

## **How often should I perform maintenance as per the Abbott Prism Next Operations Manual?**

The manual outlines a regular maintenance schedule, typically recommending checks and servicing on a daily, weekly, or monthly basis, depending on the specific task.

## **Is training required to operate the Abbott Prism Next as per the Operations Manual?**

Yes, the Operations Manual emphasizes the importance of training for all operators to ensure safe and effective use of the Abbott Prism Next system.

## **What should I do if I encounter an error message while using the Abbott Prism Next?**

Refer to the troubleshooting section of the Operations Manual, which provides detailed steps to diagnose and resolve common error messages and operational issues.

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