



SOLUTIONS OVERVIEW

Sunquest General Laboratory & Microbiology Solutions

Overview

Module 1: Laboratory Scenario Testing This module lets you automate your test cases for general lab and microbiology quickly and easily. Through drop-down boxes and fill-in-the-blanks, you select the functional flow and data you want to enter into each field in that Sunquest function. The solution provides support for GUI and SMART, as well as the traditional roll 'n scroll functions. You can use this solution to:

- automate the general testing guidelines
- automate calculation testing
- verify specimen tracking for SMART
- automate validation of QA ranges by method
- automate validation of Age/Gender dependent QA ranges
- automate LIS sections of your integrated test plan for HIS interfaces
- enter patients and orders for LIS training

Module 1 add-on: Advantage Test Suites™ for General Laboratory If you don't have time to enter in initial test cases, the Advantage Test Suites for General Laboratory could be for you! These pre-packaged test cases for the QualityAdvantage Laboratory Scenario solution come installed and customized to your site, giving you the ability to exercise more than 150 specific General Lab testing conditions immediately! The Test Suites are installed, configured and even executed for you by our analysts on your initial validation. These are a perfect complement to your existing test cases or a great head start for new validation plans. Each test case has complete functional descriptions and details the specific testing objectives covered, which help you verify and validate your screen prints, labels and laboratory reports.

Module 1 add-on: Advantage Test Suites for Microbiology With all the benefits and features of the Advantage Test Suites for General Laboratory above, the Test Suites for Microbiology is an optional add-on to the QualityAdvantage Laboratory Scenario solution that gives you customized test cases that exercise more than 100 specific microbiology conditions.

Module 2: Laboratory Volume Testing Imagine being able to order and result all your general lab and microbiology test codes with just a click of the mouse! You can supply interfaced patients, or the solution can register patients for you in the Sunquest system. The solution then orders the test codes you desire in either in roll 'n scroll or GUI, and, if requested, results them in either the lab resulting (by test method or worksheet) or microbiology resulting functions. Finally, the test performs an inquiry, extracting data from the screen as well as capturing screen prints for your review. You can use this solution to:

- order and result every test code
- validate all your QA values
- ensure that order & result comments cross the interface correctly
- generate transactions for interface and billing testing
- test SMART setup and routing
- assist with reference lab testing
- prove that abnormal result flags cross the interface correctly
- aid in instrument testing and with auto-file testing



SOLUTIONS OVERVIEW

Sunquest Blood Bank Solutions

Overview

Module 1: Blood Bank Scenario Testing This solution automates your manual test cases for the blood bank transfusion department. Test cases can be created to enter units into inventory, perform patient and unit testing, modify products, issue units and change the status of units. Individual test cases can be grouped together enabling you to rapidly test and re-test control functions such as QA messages or specific situations or functions. Use this solution to automate your blood bank validation plan and/or the blood bank general testing guidelines. You can also use this solution to automate the repetitive steps necessary to generate data for special projects like training, setting up patient data for testing electronic crossmatch and for billing testing.

Module 1 add-on: Advantage Test Suites for Blood Bank Want to have the advantage of Blood Bank scenario but don't have time to set up test cases? You need the Advantage Test Suites for Blood Bank. These prepackaged test cases for the QualityAdvantage Blood Bank Scenario solution are customized for your site and are an excellent consulting alternative. The Test Suites are installed, configured and even executed for you by our analysts on your initial validation. With the Test Suites, you get: Pre-defined test cases covering all routine Quality Assurance messages, basic testing for all blood bank functions, complete functional descriptions and objectives stating the expected outcomes and comprehensive documentation for regulatory reviews (covers approximately 86% of the General Testing Guidelines).

Module 2: Blood Bank Patient Unit Compatibility Volume Testing Designed to verify the ABO and Rh compatibility table for all blood products, this solution performs every combination for each blood product against every possible patient blood type plus an unknown blood type. The test creates a unique unit for each combination, resulting all unit confirmation procedures, and ordering & resulting a transfusion or crossmatch battery. It will attempt to issue the unit, validating if the unit is allowed to be issued or not, including checking for warning messages. The actual results are then automatically compared to the expected results. Use this solution to verify the ABO and Rh quality assurance rules for all blood products using either grid result or electronic crossmatch, delivering complete documentation & proof of testing for regulatory agencies.

Module 3: Blood Bank Antigen/Antibody Volume Testing The quality assurance logic for allocation and issue of units for patients with antibodies or attributes is verified by this solution. The test initially registers a patient and adds the antibody or attribute to be tested. Units positive, negative and untested for the corresponding antigen or attribute are entered into inventory and confirmation testing performed. A crossmatch order is placed for the patient. Each unit is allocated on the order and the Sunquest response is determined. This solution tests all possible combinations for each patient antibody/attribute, capturing all QA warnings/overrides that are displayed. It delivers 100% validation of your V6 antigen/antibody compatibility table and your attribute table.

Module 4: Blood Bank Reaction Result Volume Testing validates that the system correctly evaluates the entered interpretation for every possible reaction result pattern for any patient or unit test with a reaction result maintenance definition. The solution will enter all possible reactions for each phase and all possible interpretations, validating the system response. The Result Reaction Volume Solution is perfect for exhaustively testing your result patterns and interpretations before implementing electronic crossmatch testing. And a quick and easy way to test your common reaction result maintenance changes, like adding/removing a phase or adding/removing screening cells.

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