

Synergent Biochem Inc. Calibration Verification Kit¹

Synergent Biochem, Inc.
www.synergentbiochem.com
Cat. No. 815

This product is for use on CardioChek[®] PA or CardioChek[®] Plus professional analyzers using PTS Panels[®] lipid panel and CHOL+HDL+GLU test strips²

This kit contains solutions that are used to perform calibration verification (cal-ver) for the following analytes: total cholesterol, HDL cholesterol, triglycerides, and glucose in three levels. There are 2 sets (3 levels each) for a total of 6 vials of solutions. One set of 3 levels is used for total cholesterol, triglycerides, and glucose, and the second set of 3 levels is used for HDL cholesterol only. For calibration verification, please use the same test strips that you will use for your patients.

1. Read the calibration verification kit package insert before using.
2. Follow manufacturer recommendations for storage and testing temperature.
3. Follow PTS Panels package inserts and the analyzer User Guide to run the test strips on the analyzer.
4. Gently swirl or invert each vial to thoroughly mix solution (do not shake).
5. Remove the lid and carefully remove the tip from each vial.
6. After inserting the test strip into the analyzer, use a precision pipet to apply 50 μ L of the Level 1 calibration verification solution to the test strip. Repeat for Level 2 and Level 3 with a new test strip each time.
NOTE: There are 6 vials of cal-ver solutions. The first set of 3 vials contains total cholesterol, triglycerides, and glucose. The second set of 3 vials contains HDL cholesterol only.
7. Test at least two replicates for each level.
8. Record the values for each analyte and enter results into a spreadsheet software program, such as Microsoft Excel.
9. Plot the values obtained for the test strips (y-axis) against the target concentrations for the analyte listed in the Calibration Verification Value Card (x-axis).
10. Use the spreadsheet software program to calculate the linear regression parameters.³
Note: If R^2 is displayed, make sure you calculate r (square root of R^2). If r is < 0.88 , troubleshoot and retest as necessary.³

1. See Package Insert for instructions.
2. This procedure is for use with PTS Panels lipid panel and CHOL+HDL+GLU test strips only.
3. Each lab should establish their own acceptance criteria.

The following table provides a guideline of strips used, assuming duplicate testing of each level:

Synergent Calibration Verification	Number of Test Strips Needed	Analytes Tested (reflectance chemistry)
Level 1 Total Cholesterol (Chol) Triglycerides (Trig) Glucose (Glu)	2	Total Cholesterol, Triglycerides, and/or Glucose
Level 2 Total Cholesterol (Chol) Triglycerides (Trig) Glucose (Glu)	2	Total Cholesterol, Triglycerides, and/or Glucose
Level 3 Total Cholesterol (Chol) Triglycerides (Trig) Glucose (Glu)	2	Total Cholesterol, Triglycerides, and/or Glucose
Level 1 HDL Cholesterol (HDL-C)	2	HDL Cholesterol
Level 2 HDL Cholesterol (HDL-C)	2	HDL Cholesterol
Level 3 HDL Cholesterol (HDL-C)	2	HDL Cholesterol
Total Number of Test Strips Used	12	

Please call Customer Service at +1-317-870-5610 (direct) or 1-877-870-5610 (toll-free US only) if you have any questions or comments.

IMPORTANT NOTE: The glucose in this product is intended for use with the PTS reflectance (colorimetric) CHOL+HDL+GLU test strips. This product is not intended to be used with the amperometric eGLU test strips.