

## SUPPLEMENTAL TECHNICAL BULLETIN

**Title:** Exporting Data to Prism 5 Software (V2.0.0)

**Bulletin No:** ST-2010-01

This Supplemental Technical Bulletin (ST) has been developed as a laboratory aid. In accordance with Good Laboratory Practice and regulatory requirements, each laboratory must develop, validate and adopt its own written procedures.

### Exporting Data to Prism 5 Software

Test results can be exported for further analysis. All test types except HIT and Sticky Platelets may be exported.

1. When the tests are completed,
  - a. Recall each set of tests
  - b. Select Export



Text File – Raw Data

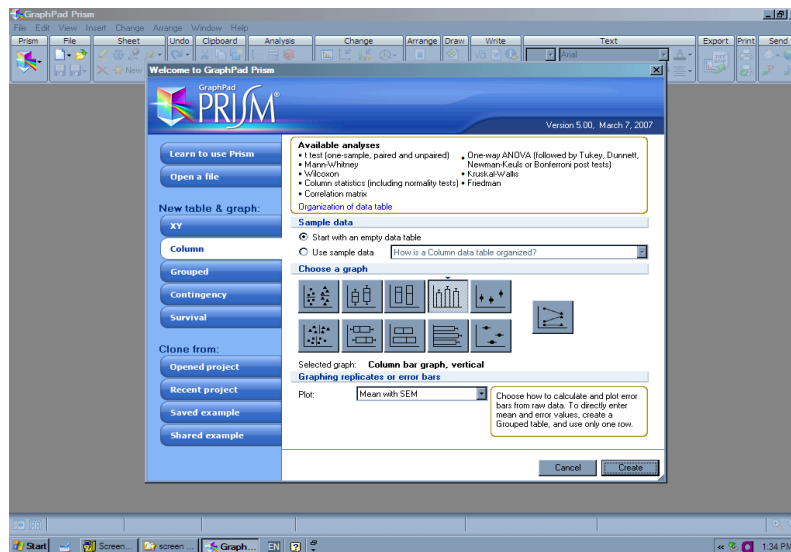
Prism – Exported data will include PA, PS, SA, SS, LP, MA, FA.

Excel - % Agg w/ results; **Must have Excel on computer**

- c. Select Begin Export
- d. Please enter a filename for the export data file
- e. Then select, OK
- f. The export data file has been saved as c: PAP-8E \_Export
- g. Then select, OK

If you selected **Prism** - Exported data will include PA, PS, SA, SS, LP, MA, FA

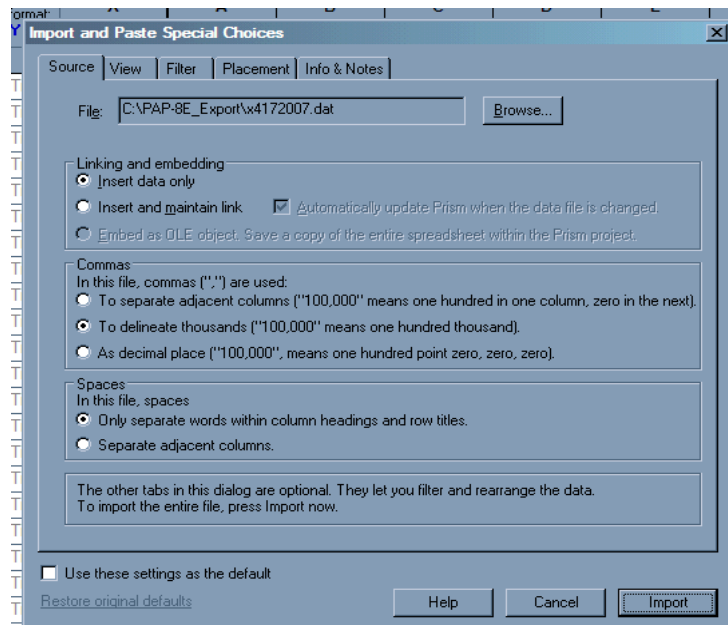
2. Return to the Main Menu
3. Change Resolution
  - a. Control Panel
  - b. Display
  - c. Settings
  - d. Screen Resolution – More
  - e. Select ok
4. Select Prism on Main Menu



5. Select the type of analysis method and perform the analysis. From new table and graph: choose either Column or Grouped.
  - a. Choose a graph
  - b. Select Y: enter and plot a single Y value for each point
  - c. Select Create
6. Place the cursor at A1
7. Import the first set of test data
  - a. Select File, Import



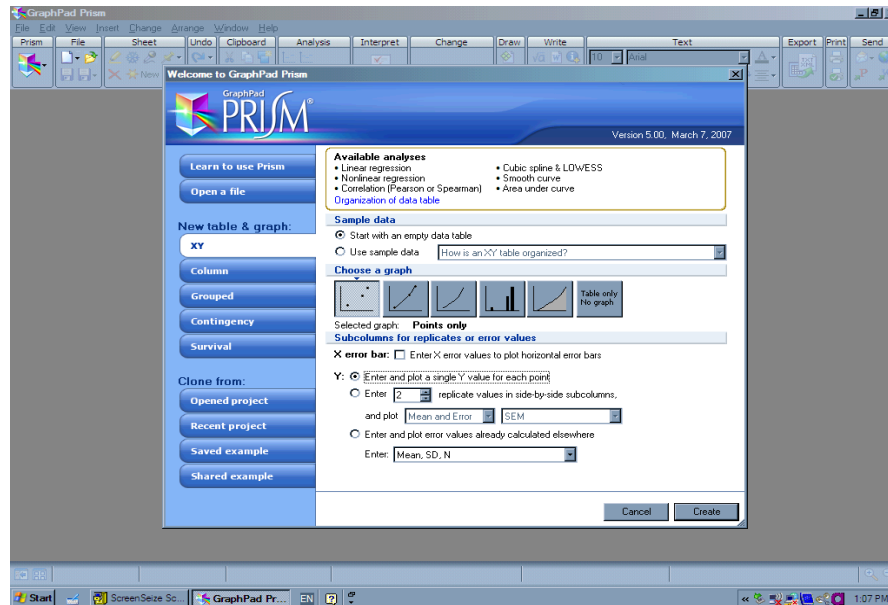
- e. Select Import from the Import and Paste Special Choices. The results will appear in the table.



8. To import a second data set
  - a. In the Data Table screen, Select the first cell in the row below the last data row
  - b. Select import and repeat steps 7a. – 7e.
9. Delete columns with no data
10. In Title Column put in Reagent name or patient name/number, etc. This will be on the X - Axis
11. Go to graphs
12. Go to tool bar, Select change bar appearance
  - a. Change color pattern of bar and boxes, then select down arrow, Select a color.
  - b. On the same screen, go to Data set, click on ↓, this will allow the next data set color to be selected.
  - c. Repeat for each set of data.
  - d. When finished changing all data, select OK.

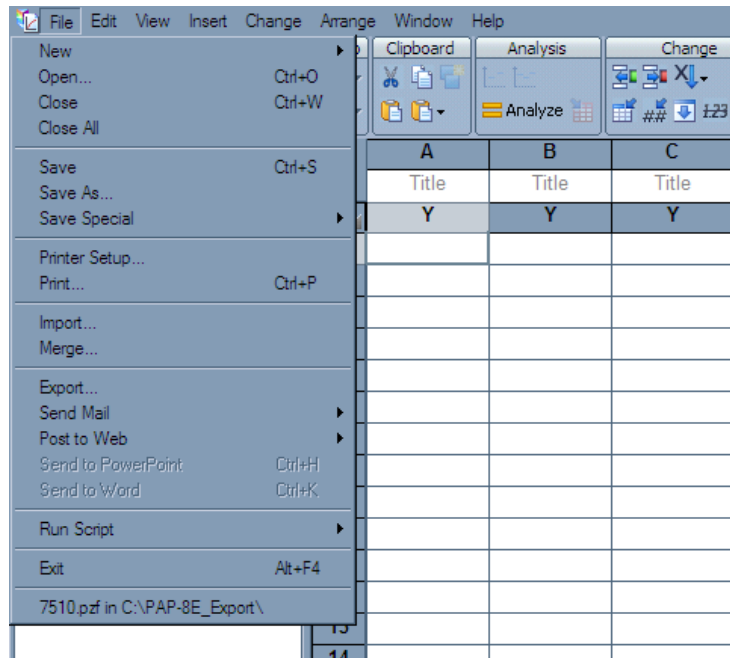
If you selected **Text File** then the export file is in the long form (raw data) and contains additional information for each test selected. This file may be imported into Excel®.

2. Go to the Main Menu
3. Change Screen Resolution
  - a. Control Panel
  - b. Display
  - c. Settings
  - d. Screen Resolution – More
  - e. Select ok
4. Select Prism on Main Menu
5. Select the type of analysis method and perform the analysis. From new table and graph, choose XY.

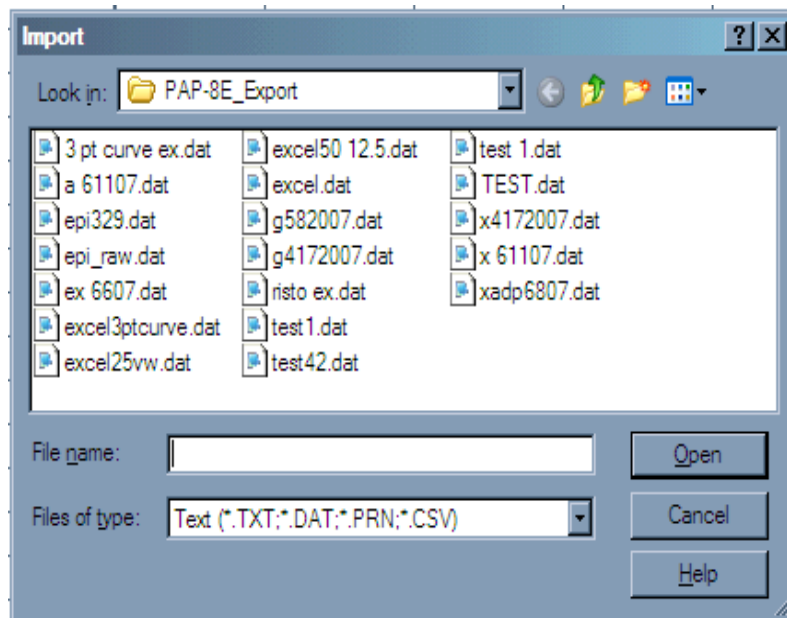


- a. Choose a graph
- b. Enter and plot a single Y value for each point.
- c. Select Create
- d. Place cursor on A1

6. Import first set of data
  - a. Select File, Import

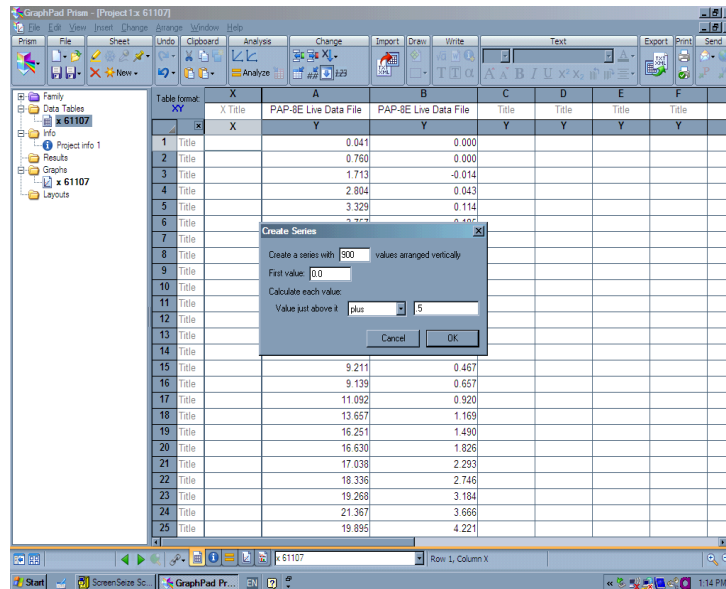


- b. Go to C: PAP-8E \_ Export



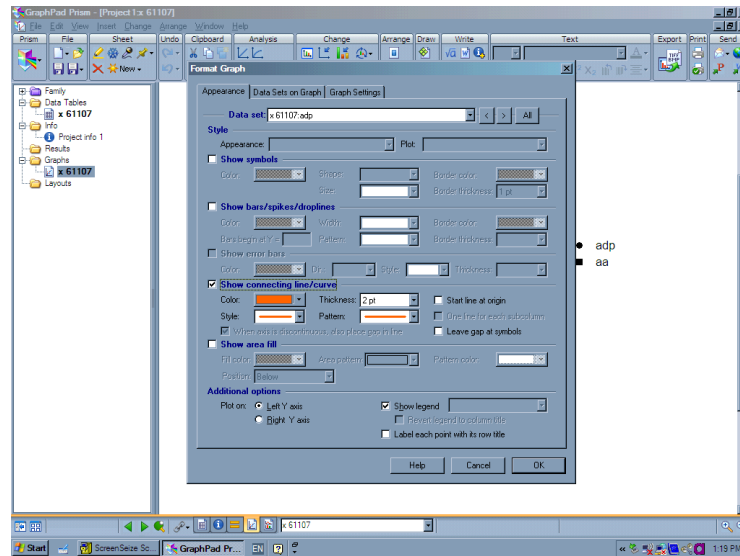
- c. Select file, Select Open
  - d. Import and Paste Special Choices, select Import
  - e. The raw data will appear

7. To Import a second set of raw data
  - a. Place the cursor on open column and Row 1
  - b. Repeat Step 6 a-e
8. Delete the first 28 rows, Row 29 starts the Raw Data. The information in the first 28 rows includes the instrument serial number, date, patient number, PA, PS, SA, SS, LP, DA, MA, FA, etc.
9. Place Cursor in X 1.
10. Go to ↓ change 123, left click ↓123.
11. Pop up box will appear.

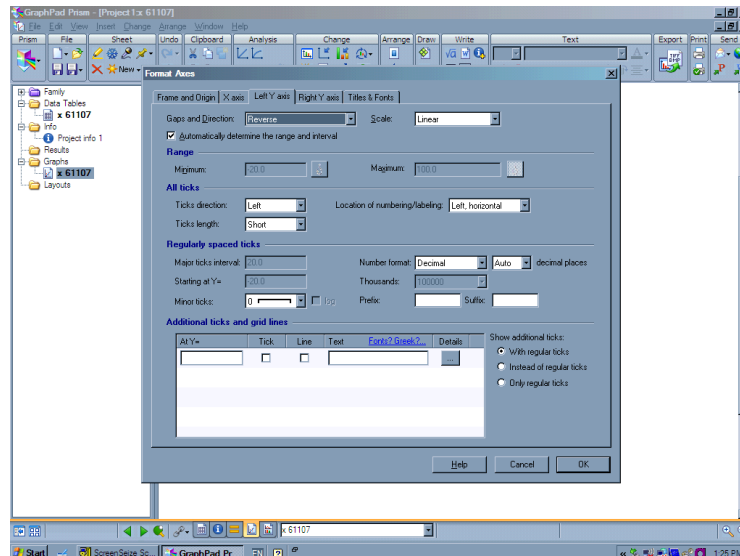


Raw data create a series.

- a. Create series with about 900 values (this depends on length of test, scroll down to see what is the last test number).
  - b. First value (0.0)
  - c. Value just above it (plus 0.5)
  - d. Select OK
12. In white box next to X title, between column A and Y
    - a. Change name of column
  13. On left side of screen in the white area, Select graph
  14. Go to tool bar, select Change, go to symbols and lines



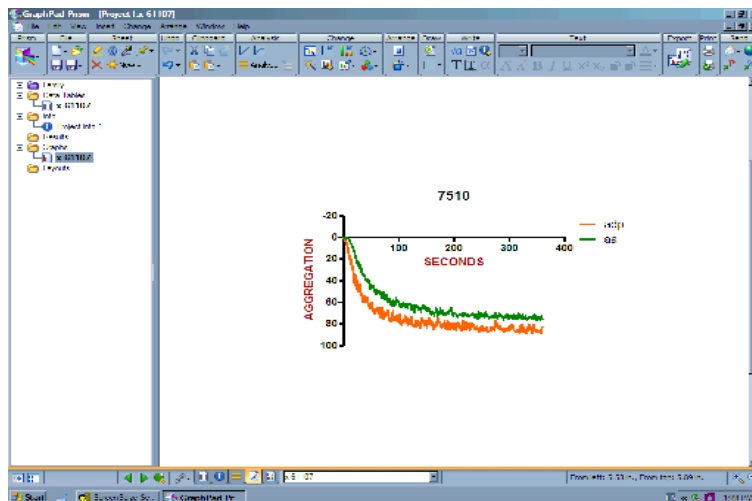
- a. Unclick, show symbols
  - b. Click, show connecting line / curve
  - c. Color, select a color
  - d. On the same screen, go to Data set, click on ↓, this will allow the next set of raw data and color to be changed.
  - e. Repeat for each set of data, 14a to 14c.
  - f. When finished changing all data, select OK.
15. Go to Change on the tool bar. Y axis (left)



- a. Gaps and Direction, select drop down box. Change to Reverse
  - b. Select OK
16. On graph, place cursor on Y title
- a. Type in Aggregation
17. On graph, place cursor on X title



a. Type in seconds



## Prism Software



Research Use Only (RUO)

GraphPad Prism 5 is a powerful combination of basic laboratory and biostatistics, curve fitting and scientific graphing in one comprehensive program. It helps you organize, analyze and graph repeated experiments, pick appropriate statistical tests, and interpret the results; Prism is ideally suited to data plotting and analysis applications in the bio sciences. Easily set up project files, organize, analyze and graph repeated experiments; pick appropriate statistical tests and interpret the results. Prism is compatible with Microsoft programs such as Word, Excel and PowerPoint.

Graphical presentation, organization and statistical analyses of test data are required tools for platelet aggregation assays used in clinical, research and pharmaceutical laboratories. Also data exporting for presentations, spreadsheets for web postings or other applications.

The methods of data analysis and the various analysis parameters are beyond the content of this supplement. The manuals provided with this software are clearly defined and comprehensive. References will be made below to the more common applications described in the support manuals provided with the Prism Software. The Prism Manuals contain detailed step by step directions and are easy to follow. The manuals included are:

1. Prism Users Guide
  - a. Contains the support information for all of the Prism features.
2. Regressions Book
  - a. Defines the application of the Prism features in specific areas of analysis.
3. Prism Examples Manual
  - a. Describes the step by step process for specific applications.

The standard Export function of the PAP-8E produces a comma delimited text file that is directly imported into Prism. When imported, the columns and rows can be selected to eliminate much of the unnecessary data. This data paring may be more efficiently performed with the use of scripts (macros).

There are several methods for transferring your data to the Prism. These are direct importing, the writing of scripts and the standard cut and paste method.

The first thing that must be done is to determine what type of analysis and graphing will be done with the data.

Repetitive analytical and graphing tasks may be done with a number of Prism tools. The Prism Examples Manual describes three manual graphing methods;

1. Templates, duplicating a family of sheets
2. Applying a method by using a saved method or by following the proper example.
3. An automated method is scripting which automatically moves the selected data via a simple programming language.

The Use of Prism for dose response data calculations is described in the Prism Examples manual. The Regressions Book also has additional information about Dose Response Curves. This provides more detailed information on the analysis and data manipulations.

This software is a fully supported copy of the GraphPad Prism 5 licensed to your laboratory. For Technical Support you may go to the GraphPad web site or contact GraphPad directly.

#### **Prism Technical Support**

1. Free Access to Online Calculators: [www.graphpad.com](http://www.graphpad.com)
2. Quick Answer Database: [www.graphpad.com](http://www.graphpad.com)
3. Guide to nonlinear regression: <http://curvefit.com/index.htm>
4. Email: [support@graphpad.com](mailto:support@graphpad.com)
5. Phone support: email your phone number to [support@graphpad.com](mailto:support@graphpad.com)

#### **Application Examples:**

- Clinical and Research Laboratories
  - Clinical Lab Statistics
  - Dose Response Curves
  - EC 50/ IC 50 Calculations
  - Output to reports, presentation software
- Pharmaceutical/Biotechnology/Device Companies
  - Dose Response Curves
  - EC 50/IC 50 Calculations
  - Biostatistics
  - Output to spreadsheet, presentation, publication software
- Clinical/Contract Research Organizations [CRO's]
  - Data Management
  - Sample Estimation