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Statistical process control for Bioassays with PLA 3.0

Next PLA 3.0 Webinar & Trainings



// Sep 02, The Americas - Europe
// Sep 03, Europe - Middle East - Africa - Asia - Oceania
// Sep 08, Europe - Middle East - Africa - Asia - Oceania



// Oct 13, Asia - Oceania
// Oct 14, Europe - Middle East - Africa
// Oct 14, The Americas



// Nov 16-17, Asia - Oceania
// Nov 23 - 24, Europe - Middle East - Africa
// Nov 30 - Dec 01, The Americas

For further dates and times, [please check our Webinar & Trainings Calendar below](#)

Dear Max,

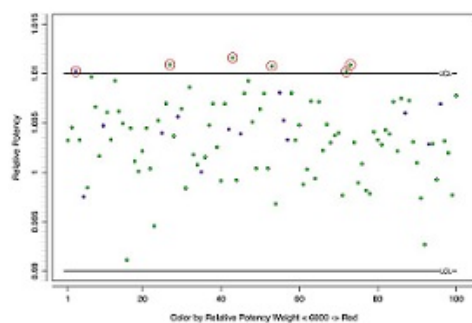
In this newsletter

- [Statistical process control for Bioassays with PLA 3.0](#)
- [Webinar & Trainings Calendar](#)
- [Meet us at](#)
- [Latest PLA 3.0 Releases](#)

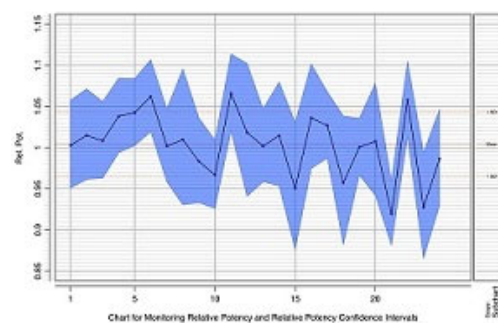
[Statistical process control for Bioassays with PLA 3.0](#)

Statistical process control is much discussed in the last weeks and one of the hot topics at the next BEBPA - EUR Bioassay Conference.

Did you know that our Control Chart Package* allows sophisticated statistical process control by plotting Shewhart I-Charts as recommended in the USP <1010>? It provides visualization options for intervals, subcharts and sidecharts, and allows you to define colors by a secondary characteristic. You can also define rules based on events and time frames.



Visualization of colors based on threshold value



Plotting relative potency with confidence intervals as area

The following list highlights the USP <1010> methods supported by the Control Chart Package:

Extensive and independent configuration options on I-charts

Individual chart (I-Chart). I-Charts monitor data such as measurements and regression parameters at regular intervals, with each data point within the chart representing a sample or an observation respectively.

All charts generated by the Control Chart package are I-Charts. You can manually add the chart data, or aggregate it from other PLA 3.0 documents such as Quantitative response assays or Dose-response assays.

Parameter statistics to view descriptive details for every chart

The Control Chart package automatically calculates the following parameter statistics for each data series: mean and median, standard deviation (SD), coefficient of variation (CV), 1st and 3rd quartile, min. and max. values, number of values, and missing values. The statistics are displayed on the Dashboard and in the reports.

In addition, you can configure confidence intervals and sidecharts to deeply analyze your data.

Statistical process control by defining control rules and control limits

Control limits define a range of acceptable values, determined by an upper and a lower limit. Any value outside of this range is considered to be a rule violation and needs to be marked as such.

Use the Control Chart Package to set up rule sets with independently defined upper and lower control limits. These rules will be drawn as horizontal lines on your control chart.

Nelson & Western Electric Company (WECO) rules

These decision rules allow detecting out-of-control or non-random conditions on control charts, based on deviations from the mean. They are also capable of detecting patterns or trends. For example, you can apply Nelson rule 3 to detect when six (or more) points in a row are continually increasing (or decreasing).

The Control Chart Package provides a set of predefined control rules (Nelson rules 1 to 8 and WECO rules 1 to 4) and also allows you to set up user-defined rules. You can also base control rules on parameter statistics of historical data. In contrast to control limits, where the limits can be defined independently, a control rule automatically applies to both the upper and the lower limits.

Calculation of the standard deviation

USP <1010> recommends calculating the standard deviation using differences between consecutive data points instead of comparison to the overall mean.

The Control Chart Package supports both methods for estimating the standard deviation.

[Please click to read more about the Control Chart Package](#)

**Please note: The current version of the package is a technology preview. It has not been released yet and has not been finally qualified for use. [How to activate the technology preview?](#)*

Best regards
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Current conferences

- BEBPA's 14th Annual EUR Bioassay Conference
September 20-23, 2021 | Virtual - [Book now](#)
- 2021 Immunogenicity Bioassay Summit
October 18-22, 2021 | Washington, D.C. USA

If you wish to meet one of our representatives, please contact our Sales Team by [mail](#).

Webinar & Trainings Calendar



// Sep 02, The Americas - Europe, 1.25h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 12 a.m. / Frankfurt 5 p.m.

// Sep 03, Europe - Middle East - Africa - Asia - Oceania, 1.25h

Frankfurt 8 a.m. / Moscow 9 a.m. / New Delhi 11:30 a.m. / Beijing 2 p.m. / Sydney 4 p.m.

// Sep 08, Europe - Middle East - Africa - Asia - Oceania, 1.25h

Frankfurt 8 a.m. / Moscow 9 a.m. / New Delhi 11:30 a.m. / Beijing 2 p.m. / Sydney 4 p.m.

// Sep 09, The Americas - Europe, 1.25h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 12 a.m. / Frankfurt 5 p.m.

// Sep 15, Europe - Middle East - Africa - Asia - Oceania, 1.25h

Frankfurt 8 a.m. / Moscow 9 a.m. / New Delhi 11:30 a.m. / Beijing 2 p.m. / Sydney 4 p.m.

// Sep 16, The Americas - Europe, 1.25h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 12 a.m. / Frankfurt 5 p.m.



// Oct 13, Asia - Oceania, 3.5h

New Delhi 8:30 a.m. / Beijing 11 a.m. / Sydney 2 p.m.

// Oct 14, Europe - Middle East - Africa, 3.5h

Frankfurt 9 a.m. / Moscow 10 a.m. / New Delhi 12:30 p.m.

// Oct 14, The Americas, 3.5h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 12 p.m.

// Dec 07, Asia - Oceania, 3.5h

New Delhi 8:30 a.m. / Beijing 11 a.m. / Sydney 2 p.m.

// Dec 08, Europe - Middle East - Africa, 3.5h

Frankfurt 9 a.m. / Moscow 10 a.m. / New Delhi 12:30 p.m.

// Dec 08, The Americas, 3.5h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 12 p.m.



// Nov 16 - 17, Asia - Oceania, 6h

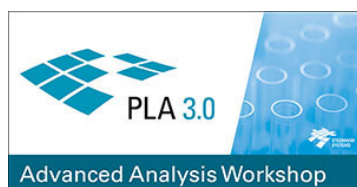
New Delhi 8:30 a.m. / Beijing 11 a.m. / Sydney 2 p.m.

// Nov 23 - 24, The Americas, 6h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 1 p.m.

// Nov 30 - Dec 01, Europe - Middle East - Africa, 6h

Frankfurt 9 a.m. / Moscow 11 a.m. / New Delhi 1:30 p.m.



// Nov 18, Asia - Oceania, 6h

New Delhi 8:30 a.m. / Beijing 11 a.m. / Sydney 2 p.m.

// Nov 25, The Americas, 6h

San Francisco 8 a.m. / Boston 11 a.m. / São Paulo 1 p.m.

// Dec 02, Europe - Middle East - Africa, 6h

Frankfurt 9 a.m. / Moscow 11 a.m. / New Delhi 1:30 p.m.

Corporate Training

Are you interested in a corporate in-house training? Please contact us via [mail](#) or visit our [website](#).

Latest Releases

PLA 3.0.5 (build 816)

Released: 2020-12-10

Control Chart Package 1.0.0 (technology preview)

Released: 2021-08-16

Dose-Response Analysis Package 1.0.0

Released: 2020-12-10

Biological Assay Package 26 SR1 (build 1043)

Released: 2019-05-17

PLA 2.1 (build 605 SR1)

Released: 2019-09-30

Download

Add-ons for PLA 3.0

PLA is an extensible platform. The user has several options to customize this platform and extend its functionality with add-ons. Go to our [website](#) and find it under 'PLA 3.0'.



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