

Build confidence  
in your results



With PerkinElmer's  
Specimen Gate® MSMS Data Suite





## Reduce time spent on reviewing data

An MSMS system generates 100 times more data than an immunoassay system. This means that there is 100 times more data every day, which needs to be reviewed and accepted by the operator.

A primary objective of PerkinElmer's Specimen Gate® MSMS Data Suite is to minimize the time required to review the data produced by the system. To achieve this, the software gives you the following tools:

- Illustration of the status of an analyzed plate using a simple traffic light concept:
  - Green – acceptable analysis.
  - Yellow – warning, further investigation required.
  - Red – repeat analysis required.
- Pre-defined QC rules determine automatic repeats requirements.
- Analyte concentration or ratio cut-offs highlight any abnormal values.
- Ability to filter the data and display only data relevant to the review. For example, the user can choose to view analytes related only to a certain disorder instead of viewing all the thousands of data items at once.
- Ability to review Total Ion Current (TIC) curves for the entire assay on one screen instead of having to review each sample or well individually

## Store data on long term basis for future reference and statistics

The ability to store analytical data over long periods is critical for all screening laboratories. PerkinElmer's Specimen Gate® MSMS Data Suite Software stores the data into a non-proprietary database. The database can be accessed for:

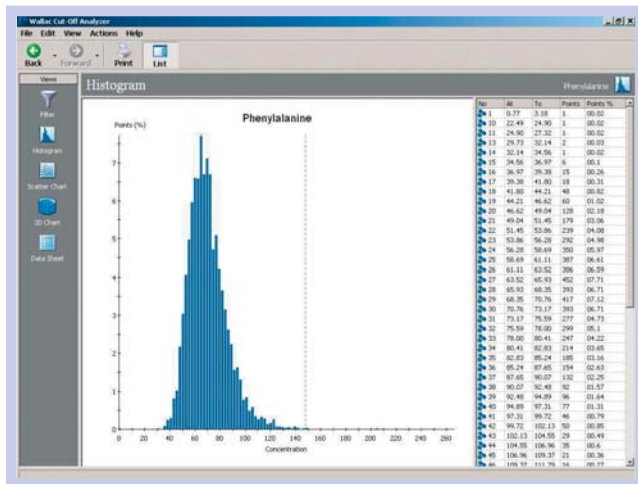
- Search of patient or assay results, e.g. for follow-up purposes
- Performance monitoring, e.g. for detecting trends in QC history
- Statistical analysis of cut-offs and other screening parameters
- Query of an audit trail of any decision made with the results
- Retrieval of TIC and spectra images from the central database instead of the instrument workstation

## Upgrade the Specimen Gate® MSMS Data Suite into a full Specimen Gate LIMS

MSMS Data Suite is part of PerkinElmer's Specimen Gate LIMS product family. This means that Specimen Gate MSMS Data Suite can be upgraded into a full LIMS system by adding other Specimen Gate software modules:

- Specimen Gate Laboratory for management of the entire laboratory work
- Specimen Gate LifeCycle to manage patient demographic data and reporting
- Specimen Gate PatientCare for case management and follow-up monitoring





A crucial aspect of any screening programme is the ability to monitor clinical performance. Optimization of your screening program is reliant on the monitoring and updating of your cut-offs based on your own population data.

To facilitate this task PerkinElmer's Specimen Gate MSMS Data Suite package uses the Cut-off Analyzer tool.

### The Cut-off Analyzer enables the laboratory to:

- Query statistics from its own result database.
- Display critical metrics for analyte concentrations or ratios, e.g. mean, median, standard deviation and percentiles
- Check the effect of cut-off values in relation to the overall performance, e.g. number of false positives
- See the effects of multi-analyte or ratio cut-offs
- See the cut-off in relation to the distribution of analyte values
- Visualize the effect that weight and/or age has for the analyte value in a scatter or a 3D plot.

Ability to use weight and/or age in plots requires Specimen Gate LifeCycle software not included in MSMS Data Suite.

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