

Quick Quantification

Image Analysis – Quick Guide

1 Select Quick Quantification

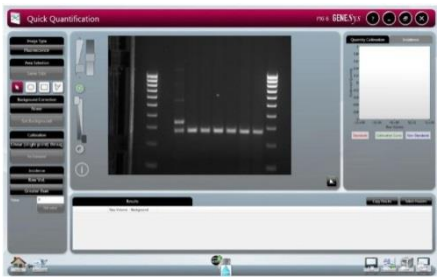
Select



➔ In GeneSys select the image you wish to analyse.

➔ Select the Quick Quantification icon from the bottom right hand corner of the screen.

2 Quick Quantification screen



➔ Image will automatically detect as either Fluorescence (white bands on a black background) or absorption (dark bands on a light background).

➔ Results table is below the image.

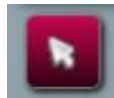
➔ Calibration and incidence tabs are to the right of the image and tools to the left of the image.

3 Drawing annotations

Select



Select



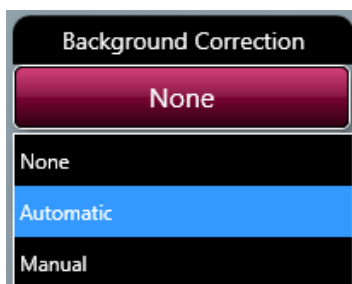
➔ Select from ellipse, rectangle or freehand.

➔ Click and drag on the image to draw shape.

➔ To add annotations of the same size and shape select the 'arrow' and double click on the centre of area of interest to add a new annotation at this position.

4 Setting background

Select



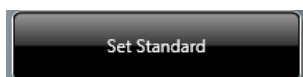
➔ Choose between None, Automatic and Manual.

➔ **Automatic**- uses the mean of the lowest value pixels from an area immediately outside the user-defined outline.

➔ **Manual**- the user selects the 'Set background' button and draws a box in an area they deem to be representative of background value. The mean pixel value in this box is used for background subtraction.

5 Setting a standard

Select



Input

Spot Number	<input type="text" value="2"/>
Raw Volume	<input type="text" value="3697775"/>
Calibrated Quantity	<input type="text" value="0"/>
Units	<input type="text"/>
<input type="button" value="OK"/> <input type="button" value="Cancel"/>	

➔ Select band/spot which you would like to assign standard to.

➔ In pop-up box enter the value for the calibrated quantity and the units.

➔ Unknown quantities will be automatically calculated from standard curve.

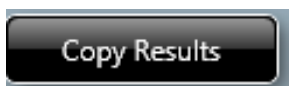
➔ Options to set a single value (the origin is used as the second point), multiple standards and multiple standard through origin.

6 Reports

Select



Select



➔ **Print report**- Pressing the report button will print a report of all data from 'Quick quantification'. The report can be tailored in the 'Settings' page in GeneSys software.

➔ **Export results**- selecting Export Results will result in the displayed results being saved as a csv file.

➔ **Copy Results**- press copy button to copy all rows in results table -all results are copied in a csv format. If one or more rows are selected, then when Copy Results button is pressed only these rows will be copied to clipboard.

7 Saving

Save/load annotations



Select



➔ If user defined outlines are drawn on an image these can be saved as annotations and used on another image. **N.B. Standards will not be saved**

Only save in .sgd file format. The file can be reopened in GeneSys.

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