

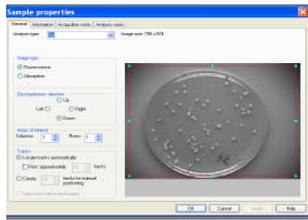
GeneTools Software Colony Counting Image Analysis - Quick Guide

1 Open GeneTools



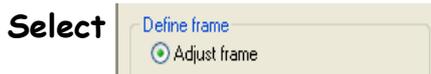
- ➔ Press open button on standard toolbar
- ➔ Select file you want analysing

2 Sample properties window



- ➔ Select colony option (pour plate)

3 Defining sample area



- ➔ Adjust frame by using mouse to position the circular frame over the colony plate
- ➔ Avoid edges where shadowing can be mistaken for colonies

4 Excluding regions



- ➔ Select 'Draw exclude region'
- ➔ Use the mouse to draw as accurately as possible around the unwanted region

5 Sensitivity detection



- ➔ Adjust the sensitivity of detection to include all colonies of interest
- ➔ Choose from the drop down menu the level of sensitivity
- ➔ Show shapes to avoid picking up shadows or undissolved agar

6 Separate colonies



- ➔ Select this to apply the separation algorithm

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Set area limits

Select

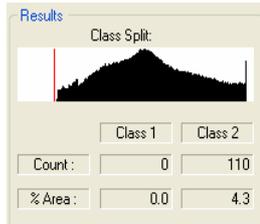


- ➔ You can input maximum and minimum colony sizes
- ➔ Save parameters as sample defaults

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Class split window

Select



- ➔ This is used when looking at two shades of dark or light colonies
- ➔ Use the mouse to adjust the red line on the histogram and split the colonies into two class types

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Manual detection

Select



- ➔ To use the manual detection function select Add/remove colonies option
- ➔ For single colour colony plate have class 1 selected and for two colour plates select class 2
- ➔ To delete colonies double click the left-hand mouse button on the colony
- ➔ To add a colony double click left-hand mouse button elsewhere

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Exporting data

Select



Select



- ➔ Report Generation - GeneTools is capable of producing a fully GLP compliant report
- ➔ Export full report to Microsoft Word

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