Electrophoresis System

Gel Analysis Software GIS 1D Software(V4.00)

Acquisition and Analysis Software is designed as a sophisticated software package for 1D analysis of gels, plates and membranes as well as colony counting. The user friendly software functions feature:

- Image Acquisition Controls
- Advanced Analysis Tools
- Extensive Image Enhancement Capabilities
- User Defined Profiles and Preferences
- Detailed Report Generation

Image Acquisition

The GIS1D(V4.0) image capture function is configured to work with Bioer's Image System.

- Capture images of any fluorescently labeled or colorimetric stained gels, blots, and membranes.
- The user friendly software guides you through steps for capture of images.

Image Analysis Functions

- Detect straight, curved or slanted lanes and bands automatically or manually
- Create histograms for detailed visual analysis
- Generate easy to interpret quantitative data of lanes and bands
- Calibrate using multiple Molecular Weight (MW) standards
- Apply one of four multiple background correction curve methods for more accurate analysis
- Measure angles, areas and lengths with Measurement Tool
- Open any 8,12 or 16 bit images captured with Bioer's Imaging Systems or transfer images from scanners with a Twain interface
- Enhance images with brightness, contract, gamma, and invert
- Annotate with text, lines, arrows, ellipse, and highlighter tools' show, hide or burn into image

Automated Colony Counting

This object counting recognition tool is suited for identifying bacterial colonies in a patri dish.

- Click through the wizard commands to set the automatic colony counting
- Split and merge colonies as well as add and remove colonies
- Use the free-form Region of Interest (ROI) tool to precisely define the area
- Automatically perform extensive statistics with the colony histogram function
- Select specific filtering criteria such as area or size of colonies

Report Generation

- Save images as various file formats including TIFF, JPEG, and BMP for use in presentations or documentation
- Create detailed and user-configured reports showing extensive analysis results on MW, Rf, precise position of bands, band intensities, etc.
- Use the Filter Data button to choose specific data for reports
- Export data to Microsoft Excel or other formats

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