



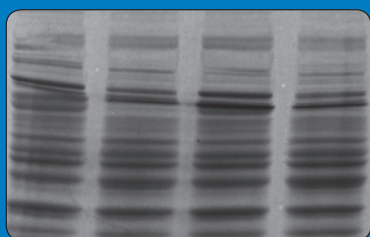
Analysis Software for 1D Gels and Blots



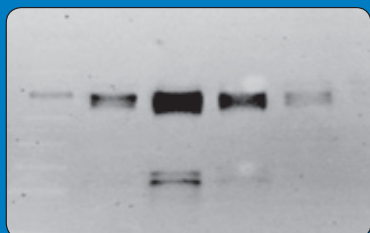
1D DNA Gels



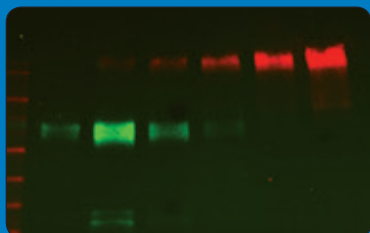
1D Protein Gels



Chemiluminescent
Westerns



Multiplex Fluorescent
Westerns



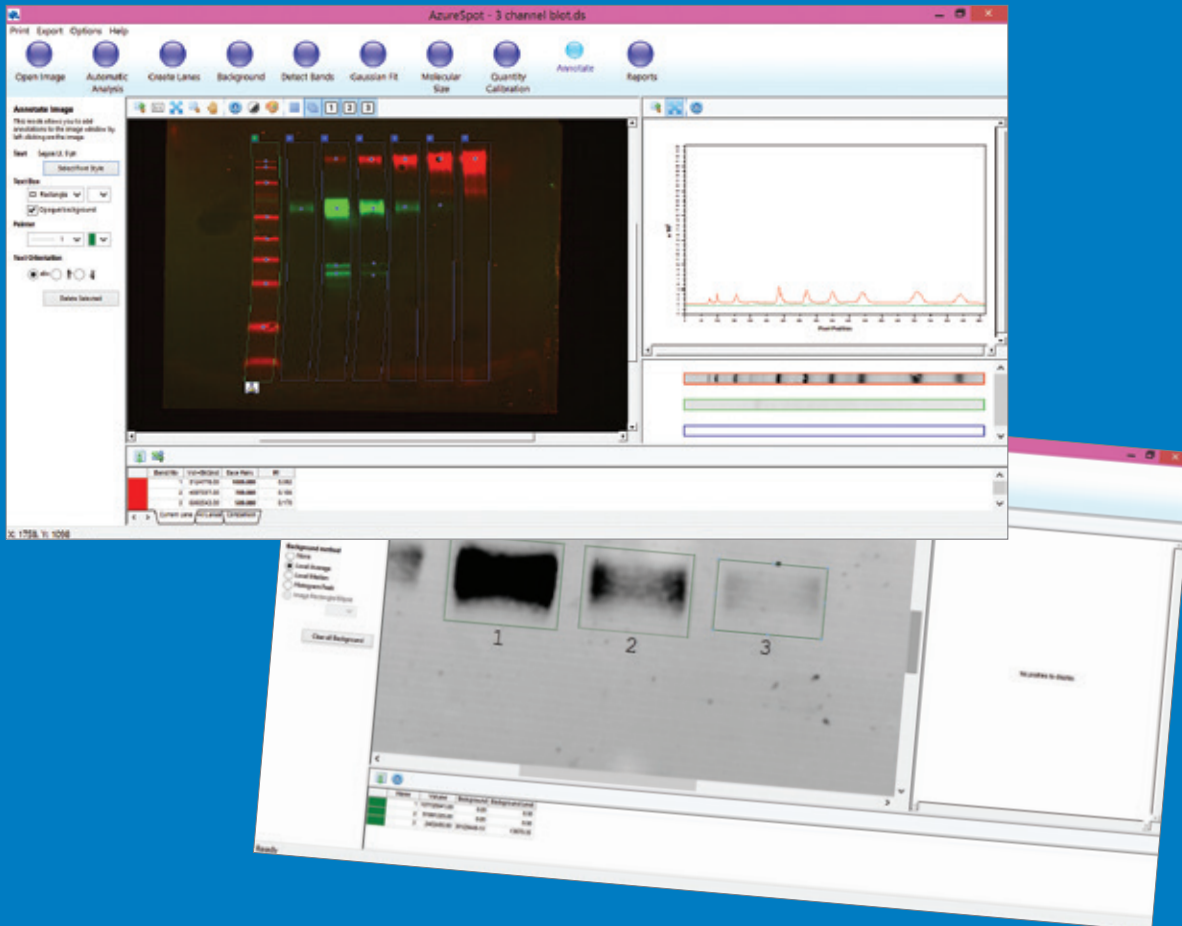
AzureSpot Analysis

Providing tools for the analysis of gels and blots, AzureSpot makes complex analysis a simple process. Designed to be either fully automated or manual, AzureSpot provides the flexibility and accuracy for your data analysis.

Tools for...

- ✓ 2D Densitometry
- ✓ Automatic Lane and Band Detection
- ✓ Molecular Weight Analysis
- ✓ Quantity Calibration
- ✓ Annotation
- ✓ Multiplex Analysis





Hardware and Software Requirements

| | |
|----------------------|----------------------------------------------------|
| Operating Systems | Windows 8, Windows 7, Windows Vista and Windows XP |
| Processor | 1.4 GHz |
| Memory | Minimum 256Mb, recommended 512Mb |
| Free Hard Disk Space | Recommended 5Gb |

AzureSpot comes standard with the Azure family of imaging systems as a stand alone license or network license.

AzureSpot includes:

- Automatic PDF report generator
- Lane creation
- Background subtraction
- Band detection
- Molecular size/pi calibration
- Quantity calibration toolbox
- Module for easy shape selection/deselection
- Wide range of data fields to display in measurements
- Annotation tools for comments and highlighting of image



Workflows to Suit Your Analysis Requirements

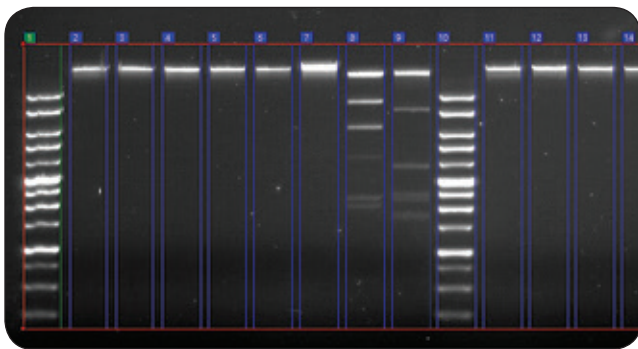
Automation for High Throughput Analysis

Start with an automatic analysis, or begin by creating lanes. Each step of the workflow is shown below, enabling fine tuning at each step. For 1D gels, highly developed algorithms accurately detect lanes and bands even on distorted gel images.

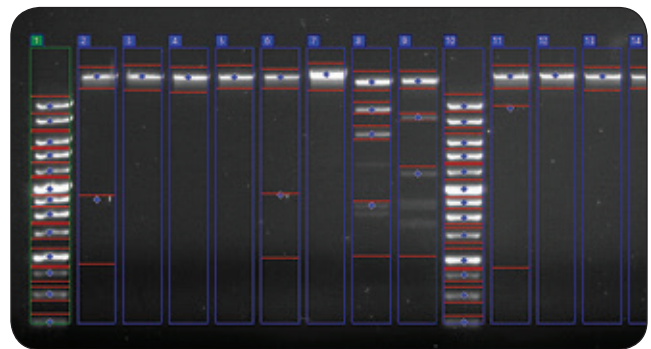
The user then has full control of the visualization tools and data display – outputting only those data fields that are of importance as well as the images of choice.

Fully Automated Option or Semi Automated

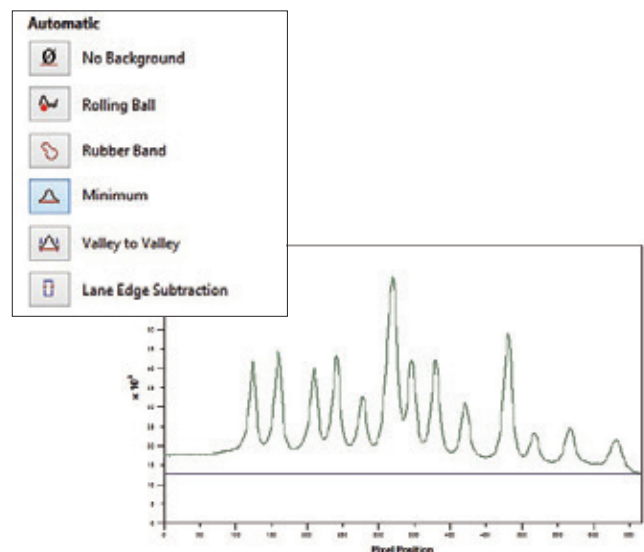
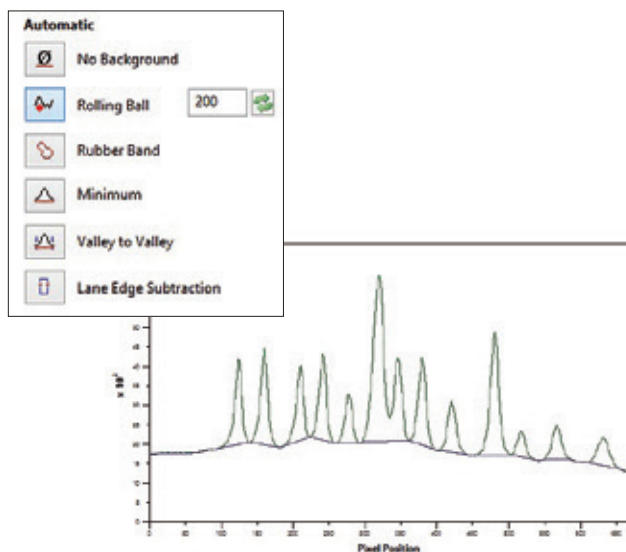
1. Lay a lane grid over your sample.



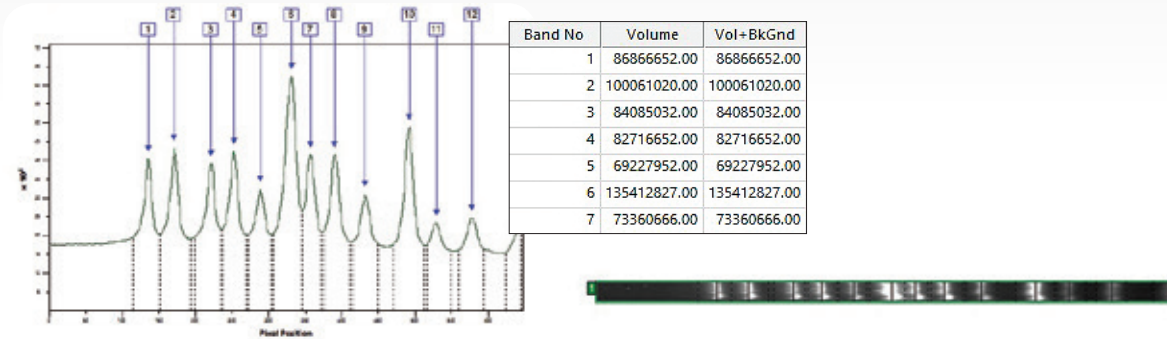
2. Set threshold values, then detect your bands.



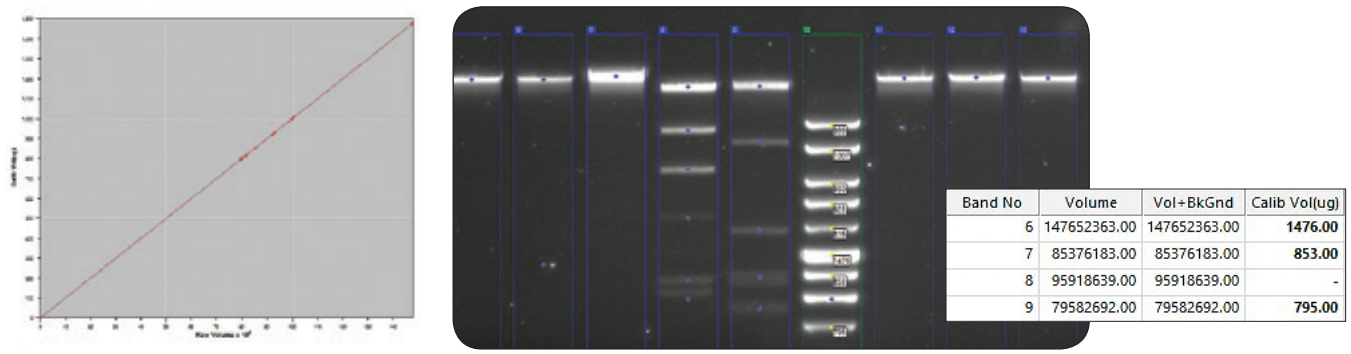
3. Correct for background, choose from a wide variety of options.



4. View your results, and make modification or edits to any band boundaries.



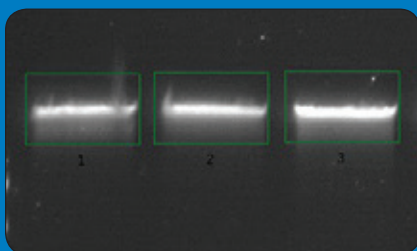
5. Use calibrated molecular weight markers to determine weight, or use calibrated standards to determine relative concentrations.



Freehand Draw for Fast Analysis

For gels with only a few bands, quickly get to results by drawing regions of interest around your results.

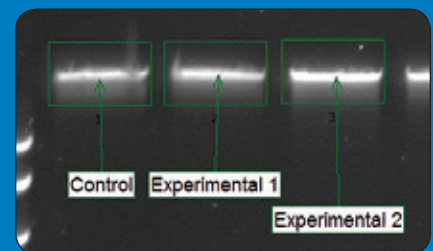
1. Draw regions of interest



2. Detect background

| Name | Volume | Background | Background Level | Average Intensity |
|------|-------------|--------------|------------------|-------------------|
| 3 | 35483455.54 | 107038890.46 | 19632.98 | 26141.31 |
| 2 | 30914078.17 | 104798895.83 | 19222.11 | 24882.34 |
| 1 | 30509322.99 | 104115730.01 | 19096.80 | 24682.79 |

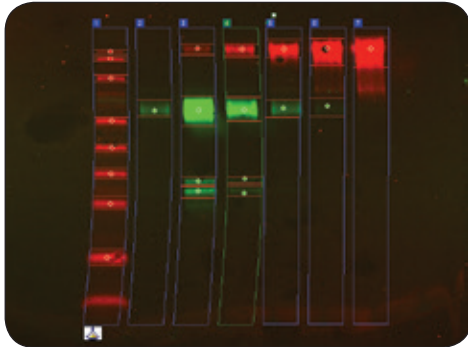
3. Annotate image



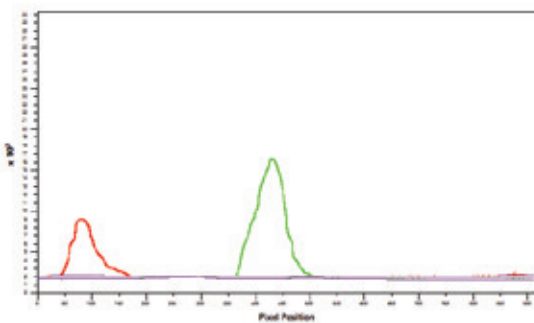
Tools for Multichannel Analysis

AzureSpot makes analysis easy on multiplex images.

A. Multiplex image



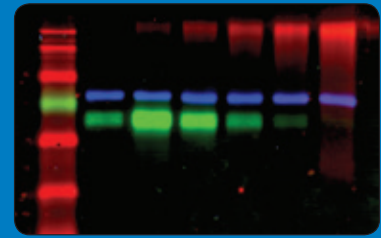
B. Intensity graph



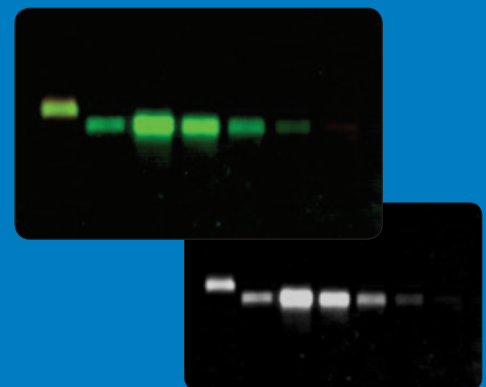
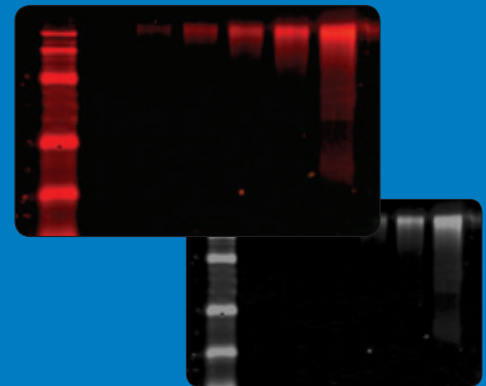
C. Grayscale image of lane in each channel



A. Multiplex image displaying lane and band boundaries. B. Intensity graph showing relative peak intensities. C. Intensity from each channels viewed in black and white.

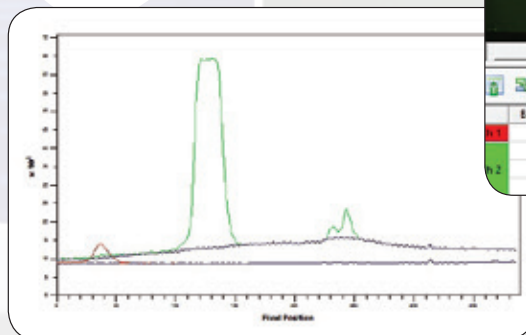
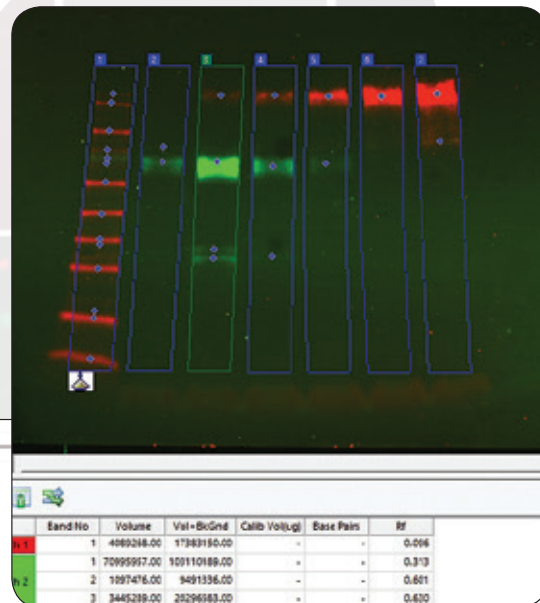
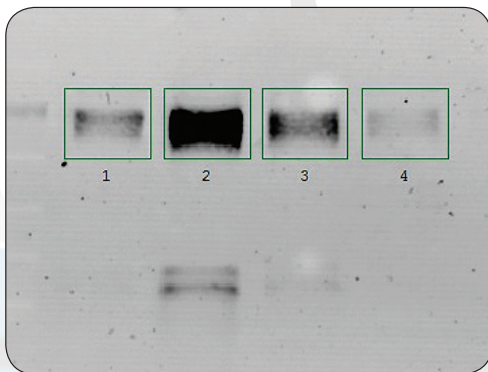
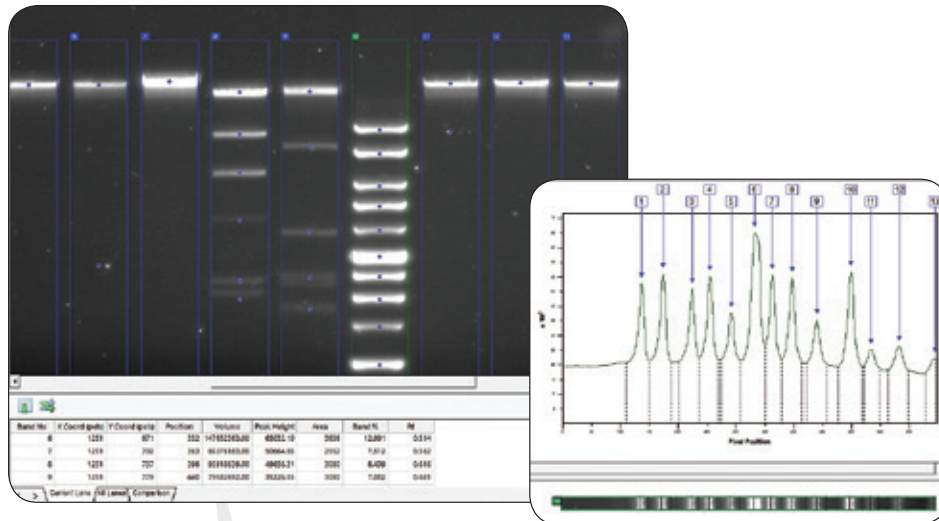


View multichannel images as a single or multichannel image, in color or black and white. Easily switch view on your multichannel images, to ensure the best analysis from channel to channel.



Export Your Results

Beyond just saving your image, you can export your data in multiple formats. Export your analysis data directly into excel, copy your image window to clipboard, or paste the image profile into other programs for further analysis.



Tools to Streamline Analysis

Automatic PDF Report Generator

Save your findings in a detailed report with the click of a button.

Integrated Tutorial

Software includes an integrated tutorial to guide you through analyzing your image.

