PROPIC II

You don't have to settle for unreliable spot excision and harvesting anymore

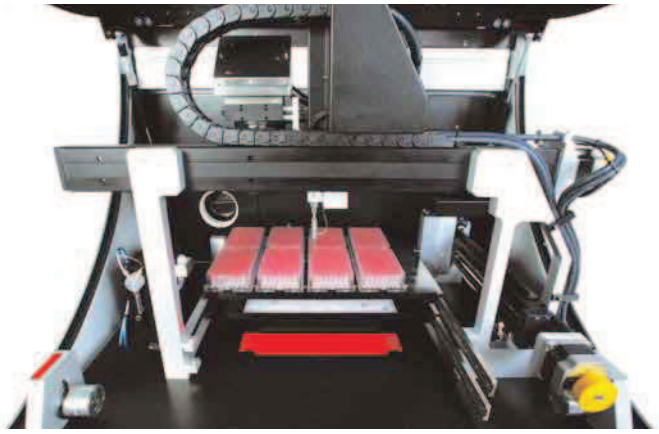
If you are looking for the most reliable and accurate way to automate the excision of spots from your protein gels, then the ProPic II is your Solution period.

Take the path to 100% efficiency!

DIGILAB

The ProPic II features:

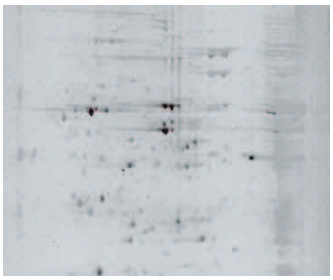
- Direct imaging & picking from 1D and 2D gels stained with all commonly used protein stains
- Seamless integration with DIGE
- Spot-excision of entire lanes from 1D gels
- Easy 'Click & Pick' spot selection
- Full environmental control
- Best in its class for:
  - High resolution imaging
  - Highly accurate spot excision
  - Total picking efficiency



On one platform, the gel imaging and picking capabilities of the ProPic II enable better performance and lower operational complexity than use of separate imagers and pickers, simplifying sample processing for mass spectrometry and paving the way to high quality data.

Typical Applications

Direct imaging & picking



Gels stained with all commonly used visible and fluorescent protein stains can directly be imaged and picked. A range of picking tips supports multiple spot sizes, gel formats, backed and unbacked gels.

See application notes #2203 & 2204

Picking directly from DIGE gels

Optional DIGE software allows for streamlined and integrated spot excision directly from 2D DIGE gels analyzed with DeCyder © image analysis software, using only the two reference points.

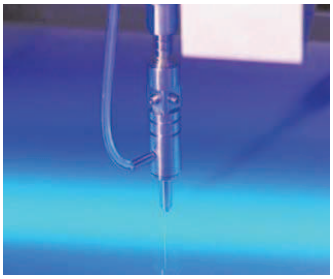
See application note #4208

Picking entire lanes from 1D gels

Band by band, entire lanes of 1D gels (including unstained portions of the gel), can be excised for gel LC applications - with all the gel plugs from one band placed in the same well for further analysis.

See application note #3108

It's as easy as 1, 2, 3

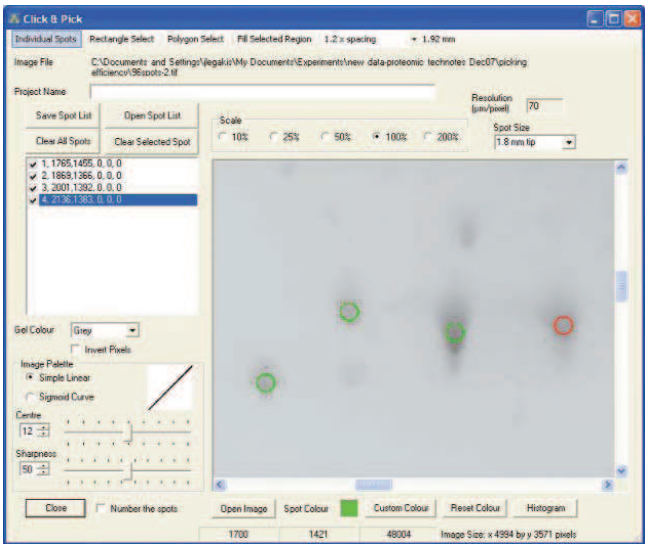


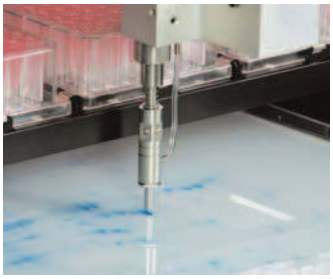
1. Take an image

A gel imaging system aboard the same platform that does the actual spot excision has many advantages, including reduced processing time, minimal risk of gel damage and elimination of reference point re-imaging. The imaging system of the ProPic II includes a light source suit- able for detecting the most commonly used protein stains, a high-resolution line scanning camera, and advanced software features like selectable resolution and image correction, making it an ideal combination for better detection of low abundance proteins.

2. Create a spot list

Easy to use 'Click & Pick' software can be applied to identify protein spots of interest from the gel image and generate spot lists which are directly interpreted by the instrument. When extended gel analysis is required prior to picking, an image analysis software package can be used to create a spot list that can then be down- loaded to the ProPic II for protein excision. Optional DIGE software translates your DeCyder pick list for direct picking from a DIGE gel.





3. Start picking

Highly exact movement of the gel picking tip to the spots of interest combined with proven spot excision technology results in highest accuracy and reliability in picking for even the small- est and most closely resolved protein features. Gel plugs are excised using patented gel hydration, cutting, and gentle vacuum extraction before being transferred into 96-well output plates. Total picking efficiency and high percentage harvesting success guarantee minimal sample loss.

For extended picking runs, the gel rehydration system can be upgraded with HEPA filtration, humidification and cooling for complete gel environmental control. Naturally, the processing environment of the ProPic II is fully enclosed for light-tight, keratin-free operation, taking another step towards high quality downstream data.

ProPic II Specifications

Image Acquisition:	Peltier-cooled camera (CCD) with 16-bit line scanning, 70-280 µm resolution
Light Source:	UV - B (includes filter for visible dye imaging)
Imaging/ Picking Area:	28 cm x 25 cm
Picking Accuracy (all axes):	10 µm at picking tip (1 µm at encoder)
Picking Speed:	120 spots per hour
Picking Efficiency:	100% (See application note 4108)
Harvesting Success:	99.3% (See application note 4108)
Picking Tools:	**Three tips are included with the instrument:** #1: 1.8 mm I.D., 0.4 mm shoulder, 1.5 mm cavity (ideal for 1- and 1.5 mm high percentage acrylamide and Duracryl gels) #2: 1.8 mm I.D., 1 mm shoulder, 0.7 mm cavity (for 0.5-mm gels and plastic-backed gels) #3: 1.8 mm I.D., 1 mm shoulder, 1.5 mm cavity (for most acrylamide and glass-backed gels, 1 and 1.5 mm)
Capacity:	One large format 2D gel or multiple smaller gels Eight 96-well microtiter plates for excised gel plugs
Applications:	Spot excision and harvesting from 2D and 1D electrophoresis gels; single spots or filled areas (e.g. entire lanes) Plastic-backed, glass-backed, and non-backed gels Compatible with all common visible and fluorescent protein stains (Coomassie©, Silver, SYPRO©, Pro-Q©, Deep Purple©, Flamingo™)
Software:	'Click & Pick' stand-alone software for protein gel image acquisition and picking Compatible with most third party protein image analysis software packages Pro-Pic DIGE software for seamless integration with DeCyder© (optional)
Environmental Control:	Completely enclosed for light-tight, keratin-free operation. HEPA filter (optional) Humidification & Cooling (optional)
Wash Station:	Washes inside and outside of tip
Power:	110/240 VAC, 50/60 Hz, 6A, single phase
Dimensions/ Weight:	900 x 650 x 760 mm, 115 kg (robot only)

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