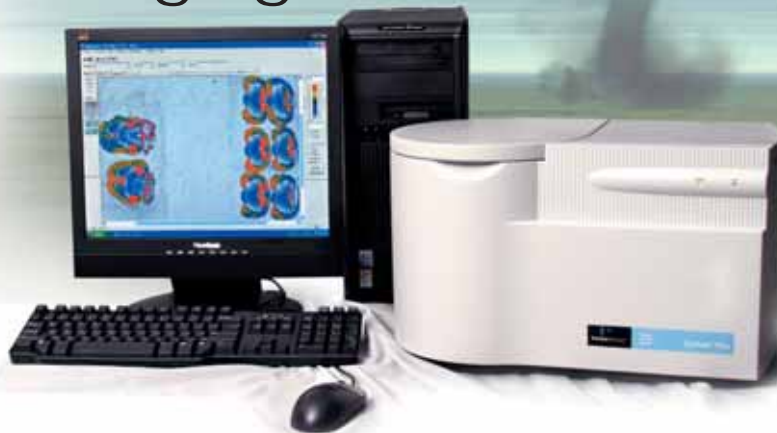


Cyclone Plus: A Personal Storage Phosphor System for Radiometric Imaging



PerkinElmer is a leading supplier of nuclear counters and detectors. The Cyclone® product line was developed as a high resolution filmless autoradiography phosphor imager. It provides unsurpassed sensitivity and flexibility for gene arrays, electrophoresis gels, thin layer chromatography samples and tissue sections right at your bench top.

Recently, PerkinElmer introduced the Cyclone Plus, providing enhanced sensitivity and more robust hardware design. The Cyclone Plus is compact, affordable, and fast and easy to use — an ideal imager for personal laboratory use.

Features & Benefits of Cyclone Plus

Quality

- **Highly sensitive:** reduces film exposures by 10–100 times.
- **Simultaneous exposures:** linear dynamic range of five orders of magnitude.
- **High resolution image:** laser focuses on less than 50 microns.
- **Publication quality images:** provides best results for quantitation.
- **Reliable performance:** a robust USB v2.0 host computer interface and improved electronics for years of worry-free performance.

Flexibility

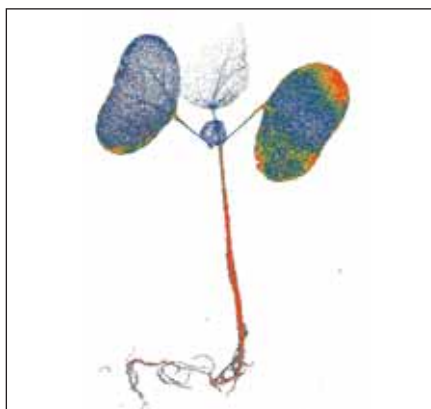
- **Digitized output:** OptiQuant™ software allows printing, exporting and archiving of digital images.
- **Images all common radioisotopes:** ^3H , ^{125}I , ^{14}C , ^{32}P , ^{33}P , ^{18}F , $^{99\text{m}}\text{Tc}$, ^{90}Y , ^{111}In and ^{177}Lu .
- **Reusable, erasable phosphor screens:** variety of sizes available, optimized for different applications.
- **One instrument for all your needs:** tissue sections, sequencing gels, TLCs and more.

Customer Satisfaction

- **Individualized service:** highly trained local Sales Application and Service Specialists.
- **Over 1000 installations** worldwide.

Cyclone Plus versatility and sensitivity is unsurpassed for radioisotope imaging, replacing film autoradiography for a variety of applications:

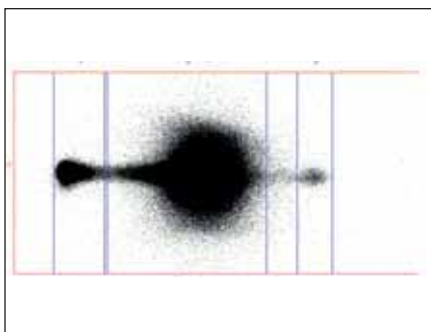
- *In vitro* imaging of tissue sections using ^3H or ^{14}C , PET or ^{125}I
- Analysis of purity for radiotherapy and PET products: $^{99\text{m}}\text{Tc}$, ^{18}F , ^{90}Y and ^{177}Lu
- Nucleotide metabolism studies involving TLC of ^{32}P and ^{33}P
- Gene and protein expression studies using ^{32}P - and ^{33}P -labeled DNA or ^{14}C - and ^{35}S -labeled protein 2D gels



Plant autoradiography



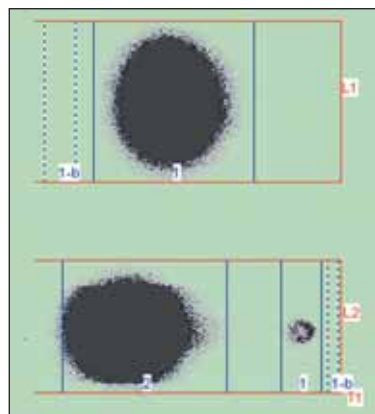
^{14}C rat whole body autoradiography



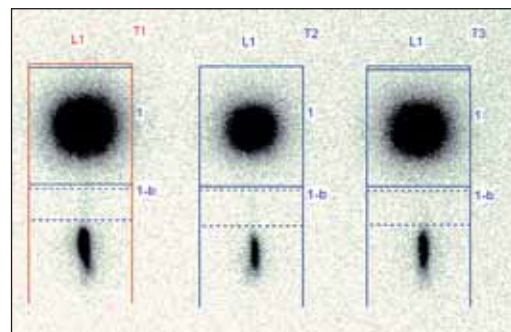
Radiochemical purity TLC of ^{18}F on silica

Recent Applications

Radionuclide	Assay Format	Specific Application
^{32}P	Hybond® N+ Membranes	^{32}P cDNA arrays and transcriptome analysis on coffee seeds
^{14}C	TLC plate	^{14}C UDPGA glucuronidation assay
^{14}C	Rat whole body sections	^{14}C -labeled compound for rat whole body metabolic distribution
^{177}Lu	TLC strips	Quality control of ^{177}Lu -DOTA-TATE
^{111}In	<i>In vitro</i> and <i>ex vivo</i> tissue sections	^{111}In DTPA-Octreotide, ^{111}In -BN analog and ^{111}In -DOTA-TATE for rat tumor targeting
^{111}In	Multi-well culture plates	Quantitative gamma-only imaging of multi-well culture plates
^{90}Y	TLC strips	Quality control of ^{90}Y DOTA-TOC
^{18}F	TLC on silica	^{18}F chromatography for PET
$^{99\text{m}}\text{Tc}$	TLC strips	Quality control of $^{99\text{m}}\text{Tc}$
^{90}Y	Multiple TLC strips simultaneously	Radiochemical purity of ^{90}Y Zevalin
$^3\text{H}/^{125}\text{I}/\text{PET}$	Tissue sections	Various receptor studies, such as Serotonin 5-HT ₂ receptors



Radiochemical purity for $^{99\text{m}}\text{Tc}$ -based radio-diagnostic agent



Radiochemical purity for ^{90}Y -based drug (Zevalin)

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