MicroTrace

Advanced Radio-TLC Analysis System for Ga-68 and Tc-99m



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Cold Kit Quality Control for Gallium-68 (Ga-68) and Technetium-99m (Tc-99m) with Precision and Simplicity

Background

MicroTrace represents the latest innovation in radio-TLC analysis technology, engineered for the quality control of cold kits labeled with Gallium-68 (Ga-68) or Technetium-99m (Tc-99m). Covering both the established Tc-99m portfolio of conventional nuclear medicine and the growing range of Ga-68 PET kits (e.g. Locametz®, Illuccix®), the system combines exceptional reliability with the smallest footprint in its class. This makes it the ideal solution for modern radiopharmacies and laboratories looking for a fast, space-saving, and user-friendly tool for radiochemical purity determination across both nuclides.

Redefining Excellence in Radio-TLC Analysis

MicroTrace transforms radio-TLC analysis by focusing on what matters most: reliable results and operational simplicity. Its scintillation-based detector records the activity distribution along the entire strip without any moving parts, delivering fast analysis times without the reliability issues associated with mechanical scanning components. One instrument covers both Ga-68 and Tc-99m applications. This means less waiting, fewer technical failures, and more confidence in your quality control process.

Compatibility Features

- Compatible with all available Ga-68 cold kits incl. Locametz®, Illuccix®, NETSPOT®, SomaKit TOC®, Isoprotrace®
- Covering the large majority of routine Tc-99m preparations
- Standard iTLC strips
- Plastic-backed and alumina-backed TLC strips
- Full integration with Eckert & Ziegler's Ga-68 portfolio (GalliaPharm®, KitLab, and EluGen)

Intuitive Design

MicroTrace is designed to simplify and enhance routine workflows in radiopharmacies, making the quality control of Ga-68 and Tc-99m labeled cold kits faster, safer, and more reliable. Its intuitive design allows laboratory personnel to operate the system with minimal training, reducing the risk of errors and ensuring consistent results. Fully integrated with Eckert & Ziegler's state-of-the-art radiochromatography workflow management software RaPET-Lab, MicroTrace provides a comprehensive solution that streamlines data acquisition, evaluation, and reporting, helping users meet regulatory requirements with ease.

Two Nuclides, One Instrument

MicroTrace serves two distinct needs from a single platform. For radiopharmacies entering the field of Ga-68 diagnostics, as cold kits like Illuccix® and Locametz® become part of routine clinical workflows, it offers a simple, reliable, and cost-effective entry point that requires neither complex nor bulky equipment. For established nuclear medicine departments running conventional Tc-99m preparations, it provides a compact alternative to the cut-and-count method, backed by regulatory-compliant documentation. Departments running both can consolidate their radiochemical purity testing onto one instrument.



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Key Specifications

	Ga-68	Tc-99m
Dimensions	201 x 106 x 33 mm	
Weight	0.7 kg	
Detection efficiency	≥30%	≥2%
Typical acquistion time	≤5 seconds (up to 30 seconds depending on activity concentration)	≤10 seconds (up to 60 seconds depending on activity concentration)
Resolution (FWHM)	≤6 mm	≤8 mm
Count rate capability *	≥700,000 cps	
Linearity *	r^2 ≥0.99 up to 400,000 cps	
Background *	≤2 cps	
Control	RaPET-Lab Workflow Management Software (Data aquisition and evaluation)	
Interface	Power / Data transfer via USB 2.0 Type-C (5 V, 500 mA, single line)	
Imaging area	10 x 120 mm (Strip size: 15 x 120 mm)	

** per 6 mm of strip length*

Designed for Your Needs

MicroTrace is the perfect solution for a variety of radiopharmacy and laboratory environments:

- **New to Ga-68 Diagnostics:** Ideal for facilities implementing Ga-68 cold kits, offering a simple, reliable, and efficient quality control solution.
- **Established Tc-99m Workflows:** Replaces the manual cut-and-count procedure with a single measurement of the strip, which reduces hands-on time and handling of activity, while producing a complete chromatogram and audit-ready record.
- **Limited Space:** With its compact design (201 x 106 x 33 mm), MicroTrace fits seamlessly into space-constrained laboratories.
- **Routine Production Environments**: Optimized for the consistent and reliable quality control of Ga-68 and Tc-99m labeled cold kits in routine production workflows.
- **Efficiency and Speed:** High sensitivity and fast performance help laboratories streamline workflows and reduce analysis times.

Reliable Support for Long-Term Performance

MicroTrace is built for durability and ease of use, offering comprehensive support to ensure consistent performance in quality control workflows. From quick setup to expert technical assistance and regular updates, MicroTrace provides the reliability and peace of mind laboratories need to focus on their work.
For added convenience, Eckert & Ziegler offers services for these stand-alone devices, such as the Life Cycle Program. Please contact the Eckert & Ziegler service department for more information on all available service options.



Eckert & Ziegler
Eurotope GmbH

Robert-Rössle-Strasse 10
13125 Berlin
Germany
Phone: +49 30 941084 197

med@ezag.com
www.medical.ezag.com

Eckert & Ziegler
Radiopharma, Inc.

25 Upton Drive
Wilmington, MA 01887
USA
Phone: + 1 508 497 0060

infoRAU@ezag.com
www.medical.ezag.com

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