



Results you can trust in a FLASH

Introducing LOCI technology

Answers for life.

SIEMENS

The LOCI technology difference

Best-in-class technology for unprecedented TAT and high sensitivity

Only patented LOCI® technology harnesses the signaling power of chemiluminescence via singlet oxygen channeling. As the first homogeneous chemiluminescent immunoassay, LOCI technology eliminates the need for exogenous trigger reagents, allows direct measurement and provides unlimited testing consolidation.

The LOCI technology advantage

- Fast TAT for all assays
- High sensitivity
- Low sample volumes
- Easy, homogeneous protocol, no washing or separation steps
- Advanced technology to minimize risk of non-specific binding

Q. What's the advantage of LOCI technology?

A. LOCI technology utilizes an oxygen channeling mechanism that provides unlimited signal generation, so you no longer need to use trigger reagents, reducing a potential source of error. In addition, LOCI technology is a homogeneous immunoassay principle that eliminates separation and wash steps. As a result, LOCI technology delivers improved precision and reliable accuracy, with fast TAT.

Q. What are its main analytical performance advantages?

A. The performance advantages include:

- Greater precision
 - Fewer reaction steps
 - Unique oxygen channeling technology, providing a wide dynamic range
- High sensitivity
 - Method-specific NSB suppressing agents
 - Low background signal with minimal noise
- Increased accuracy
 - Minimal sample volume reduces the risk of interference and requires fewer redraws
 - No high-dose hook effect

Q. How does LOCI technology impact TAT?

A. Rapid assay processing times range from 10 minutes to 21 minutes. Fewer reaction steps are required (no washing/separation) and no exogenous reagents are needed.

The homogeneous format streamlines the process to 3 steps:

- Mix
- Incubate
- Read

The result is uncompromised throughput of up to 180 tests per hour, regardless of testing mix and volume.

Q. Is this technology easy to use?

A. Incomparably so. LOCI technology maximizes workflow integration in a variety of ways. The unique homogeneous format offers superior simplicity with fewer reaction steps. Long onboard assay and calibration stability means less is required of the operator. Serum and plasma capability and flexibly meets any testing need. All testing can be done from one tube at one time.

Q. Is this technology only available from Siemens?

A. Yes. This technology is being introduced on the Dimension Vista® Intelligent Lab System. The integration of LOCI technology for immunoassays with routine

“LOCI technology provides the sensitivity for key immunoassays that laboratories have been asking for.”

Dr. Carolyn Feldkamp,
Henry Ford Medical Center, Detroit, MI

chemistry, electrolyte and plasma protein tests means decreased sample splitting and faster TAT for critical assays. LOCI technology consolidates a wide range of methods onto one platform, allowing greater ease of use with fewer instruments.

Q. What will the LOCI technology menu provide?

A. The full menu will provide assays for comprehensive disease state panels with high sensitivity immunoassays, such as cardiac markers*, cancer markers*, thyroid and anemia tests.

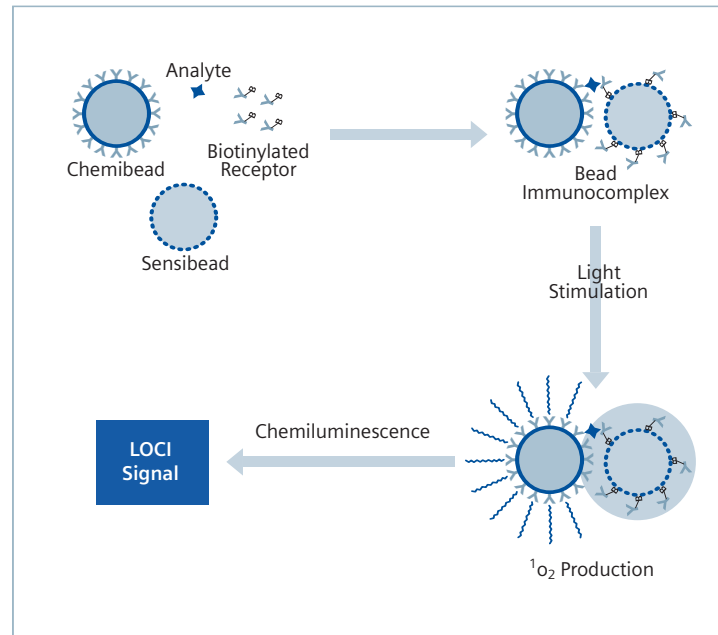
Because the menu capability is unlimited, additional assays are continually being made available.

For more information on LOCI Advanced Chemiluminescence, please call 1-800-242-3233, option 3.

Superior performance

	CTNI	MMB	NT-proBNP	TSH	BHCG	Folate	B12
Assay Range	0.015-40 ng/mL	0.5-300 ng/mL	5-35,000 pg/mL	0.005-100 μ IU/mL	1-1000 mIU/mL	0.5-20 ng/mL	50-2000 pg/mL
Analytical Sensitivity	0.015 ng/mL	0.5 ng/mL	5 pg/mL		1 mIU/mL	0.5 ng/mL	50 pg/mL
Functional Sensitivity	< 0.04 (CV 10%) ng/mL		<30 pg/mL	0.005 μ IU/mL			
Assay Time	10 min	10 min	10 min	16 min	10 min	21 min	21 min
Sample Size	20 μ L	5 μ L	8 μ L	12 μ L	2 μ L	10 μ L	15 μ L
Specimens	Serum Hep. Plasma	Serum Hep. Plasma	Serum Hep. Plasma EDTA Plasma	Serum Hep. Plasma EDTA Plasma	Serum Hep. Plasma	Serum Hep. Plasma	Serum Hep. Plasma

How LOCI technology works



LOCI technology utilizes 2 dye-containing latex beads – a streptavidin-coated SENSIBEAD, method-specific CHEMIBEAD and a biotinylated analyte-specific receptor. The basic assay steps combine the 3 reactants with analyte to form an immunocomplex. Illumination of the complex (680 nm) releases singlet oxygen from the sensibeads, which channels into the chemibeads and triggers chemiluminescence measured at 612 nm.

*Under development, not available for sale.

Siemens Healthcare Diagnostics, the leading clinical diagnostics company, is committed to providing clinicians with the vital information they need for the accurate diagnosis, treatment and monitoring of patients. Our comprehensive portfolio of performance-driven systems, unmatched menu offering and IT solutions, in conjunction with highly responsive service, is designed to streamline workflow, enhance operational efficiency and support improved patient care.

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