

LUX TRACER™

NOVEL CHEMICAL TRACERS FOR RESERVOIR MONITORING

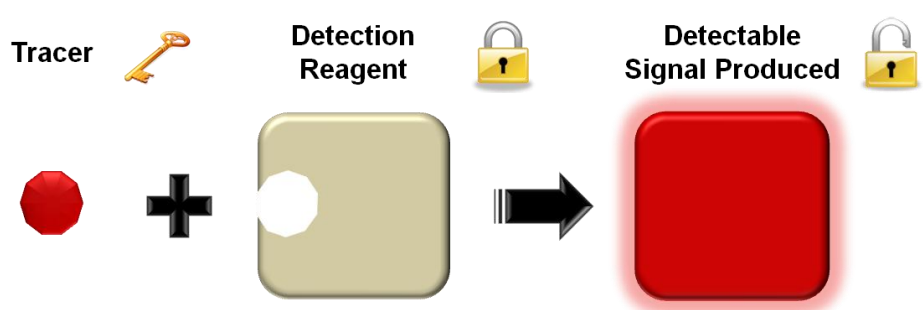
LUX Tracer™ is a technology inspired by the life sciences that enables easy on-site analysis providing results within minutes.

Key Features of LUX Tracer™

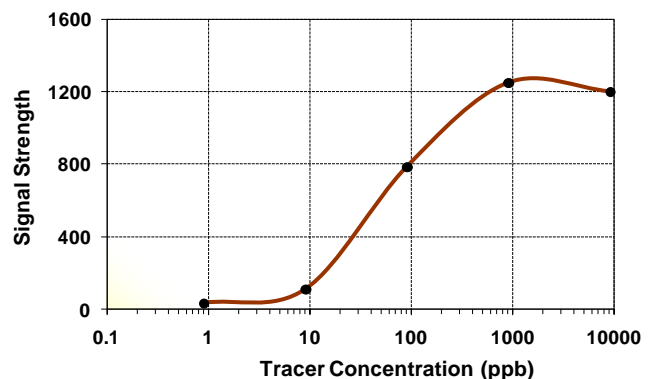
- ✓ Non-radioactive, non-fluorinated environmentally friendlier chemical tracers
- ✓ Onsite detection - using handheld device
- ✓ Simple detection assay – inexpensive equipment and no complicated extractions
- ✓ Tracers are latently detectable – minimises false positives
- ✓ Can differentiate the signal generated from different tracers, even when present in the same sample

Principle of LUX Tracer™

This novel technology uses biomolecular reagents to detect chemical tracers. Each tracer has a complementary biomolecule with which it interacts (analogous to the way a lock and key work). When the tracer and detection reagent come into contact an easy to detect signal (generally fluorescence) is produced; the interaction is highly specific which reduces the risk of false positives. The method allows latent detection of the tracer, a background reading is taken first and then subtracted from the final result, this enables interferences from potential contaminants (such as oil or treatment chemicals) to be minimised.

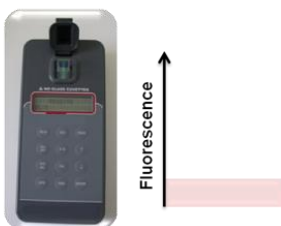


Example of a LUXTracer™ Detection Profile

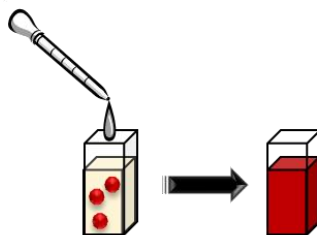


Method Provides Latent Detection

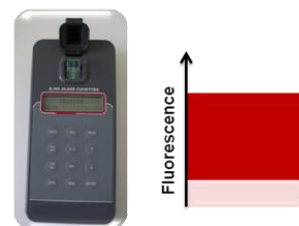
Step 1: Measure sample background fluorescence



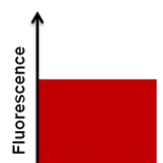
Step 2: Add detection reagent



Step 3: Measure resulting fluorescence



Step 4: Subtract background fluorescence



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