

LUX TAG™

HIGHLY SENSITIVE LATENTLY DETECTABLE TAGS FOR MONITORING CHEMICAL ADDITIVES

LUX Tag™ offers Chemical Service Companies and Operators the opportunity for onsite monitoring of chemical returns, using a quick and simple method.

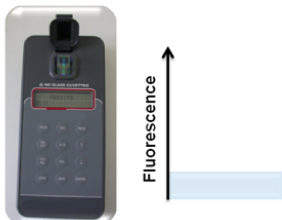
Principle of LUX Tag™

This novel technology uses biomolecular reagents to detect molecular tags which are chemically attached to treatment chemicals e.g. polymeric scale inhibitors. Each tagged chemical has a complementary biomolecule with which it interacts (analogous to the way a lock and key works). When the tag and detection reagent come into contact a signal (generally fluorescence) is produced which can be easily detected. The specificity of the interaction between tag and the detection reagent provides for a very sensitive and simple assay. The format of the method also allows for latent detection of the tagged chemical. The advantage of latent detection is that false positives from contaminants (such as oil or other treatment chemicals) can be minimised by first taking a background reading and subtracting this from the final result.

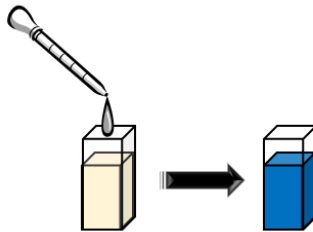


Method Provides Latent Detection

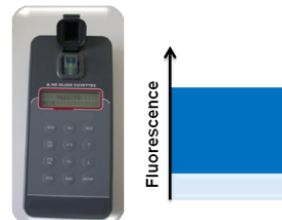
Step 1: Measure sample background fluorescence



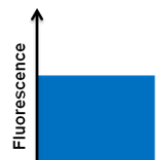
Step 2: Add detection reagent



Step 3: Measure resulting fluorescence



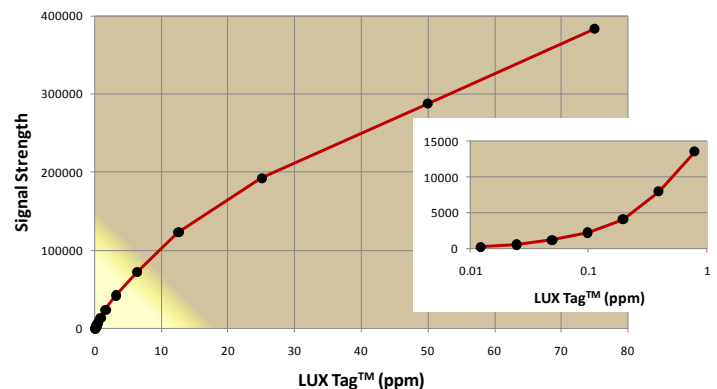
Step 4: Subtract background fluorescence



Key Features of LUX Tag™

- ✓ Sensitive – detect to parts per billion (ppb)
- ✓ Tags are latently detectable – minimises false positives
- ✓ Simple detection assay – inexpensive equipment and no complicated extractions
- ✓ Suitable for onsite use
- ✓ Can differentiate the signal generated from chemicals labelled with different tags, even when present in the same sample

Example of a LUX Tag™ Detection Profile



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Issue Code: 2247