

FOR OVER 40 YEARS...

For 40+ years Isotopes Canada has been a leader in providing niche tracer technologies to our customers. Our goal is to provide quantitative solutions that lead to increased production and decreased operating costs for our customers.

Our IsoTECH tracers are a cost-effective tool used to better understand reservoir characteristics, validate modeling and assumptions, optimize production and achieve maximum profitability.

Handling Measures

Our team of professionals are trained to handle concentrated amounts of our IsoTECH formulations including tritium during injection.

Samples can be handled by anyone following normal safety procedures (nitrile gloves and safety glasses).

Custom Tracer Program

- Tracer program design
- Injection program
- Sample program design
- Sample analysis
- Quick turn around



PROVIDING TRACER SOLUTIONS FOR TODAY'S INDUSTRIES

Precision IsoTECH Tracers



ISOTOPES
CANADA



BETA TRACERS

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Tracer Applications

- Steam assisted gravity drainage (SAGD)
- Water alternating gas (WAG) injection
- Cyclic Steam Stimulation (CSS)
- Water flood
- Polymer flood
- Gas
- Chemical flood
- Polymer tagging
- Geothermal
- Many other applications

Stability

- pH
- Pressure
- Extreme temperatures
- Salinity (won't precipitate)
- Minimal surface interactions

Tritium

- Integral component of our tracers
- Isotope of hydrogen
- Low energy beta emitter
- Radiation travel distance:
 - 0.56 μm in water
 - 6 μm in air and tissue.
- Doesn't penetrate Dead Skin layer (10 – 40 μm) on the human body
- Shielded by a thin layer of plastic or glass.
- Small volumes
- Traced to the parts per trillion

Tracing the future, one sample at a time

Safe

Health and safety is top of mind at Isotopes Canada. We are licenced and audited by the Canadian Nuclear Safety Commission (CNSC) for the specific use of the radioisotope tritium.

Economical

Small volumes per injection (< 1 L)

Does not interfere with operations and minimal injection and sampling equipment.

Custom Tracer programs to minimize cost.



Reliable

IsoTECH tracers provide accurate and robust data points, providing quantitative results that can be traced to the parts per trillion mark with a half-life of 12.3 years.

Prompt

Once samples are received at Isotopes Canada's lab location in Calgary, our results will be processed within 5-7 business days.

Versatile

We are continuously investing in R&D developing new IsoTECH tracer formulations which can be customized specifically to meet our customers unique and complex applications providing quantitative solutions.

IsoTECH formulations

- Aqueous – for tracing water based applications or polar mixtures.
- Organic – for tracing oil/organic based applications or non-polar mixtures.
- Gaseous – for tracing gas applications using a gas phase tracer.