



DISSOLVED AND NOBLE GAS LAB

GEOLOGY & GEOPHYSICS | THE UNIVERSITY OF UTAH

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Noble Gas and Environmental Tracer Service and Pricing

Government - 2017

Tritium - ^3H analysis - using helium in-growth

\$255.00

- 1 liter samples - collected in (2) 500 cc bottles
- Requires two month ^3He in-growth period
- Measurement error $\pm 2\%$ of value
- Detection limit depends on holding period; typically 0.05 TU

Tritium - ^3H analysis for high salinity samples - using helium in-growth

\$307.50

- Required for samples over 2000 mg/l TDS
- 2 liter samples - collected in (4) 500 cc bottles
- Requires two month ^3He in-growth period
- Measurement error $\pm 2\%$ of value
- Detection limit depends on holding period; typically 0.05 TU

Dissolved gases - all noble gases - using copper tube method

\$337.50

- Analyses includes: Ne, Ar, Kr, Xe, ^4He and $^3\text{He}/^4\text{He}$ ratios
- Measurement error for helium: $\pm 1\%$ of value
- Measurement error for all other gasses: $\pm 1\%$ to 2% of value

Dissolved gases - light noble gases - using copper tube method **\$262.50**

- Analyses includes: Ne, ⁴He and ³He/⁴He ratios
- Measurement error for helium: ± 1% of value
- Measurement error for all other gasses: ± 1% to 2% of value

Dissolved gases - all noble gases - using standard diffusion sampler **\$262.50**

- Analyses includes: Ne, Ar, Kr, Xe, ⁴He and ³He/⁴He ratios
- Measurement error for helium: ± 1% of value
- Measurement error for all other gasses: ± 1% to 2% of value

Dissolved gases - light noble gases - using standard diffusion sampler **\$225.00**

- Analyses includes: Ne, ⁴He and ³He/⁴He ratios
- Measurement error for helium: ± 1% of value
- Measurement error for all other gasses: ± 1% to 2% of value

Dissolved gases - all noble gases - using advanced diffusion sampler **\$337.50**

- Analyses includes: Ne, Ar, Kr, Xe, ⁴He and ³He/⁴He ratios
- Measurement error for helium: ± 1% of value
- Measurement error for all other gasses: ± 1% to 2% of value

Dissolved gases - light noble gases - using advanced diffusion sampler **\$262.50**

- Analyses includes: Ne, ⁴He and ³He/⁴He ratios
- Measurement error for helium: ± 1% of value
- Measurement error for all other gasses: ± 1% to 2% of value

Dissolved gases - CFC - using glass bottle

\$150.00

- Samples collected in triplicate using 125 ml glass bottles with modified lid
- Analyses includes concentrations of CFC-11, CFC-12 and CFC-113
- Measurement error: $\pm 5\%$ of value

Dissolved gases - SF₆ - using glass bottle

\$150.00

- Samples collected in duplicate using 1000 ml glass bottles with modified lid
- Analyses includes concentrations of SF₆
- Measurement error: $\pm 5\%$ of value

Gas Chromatograph - other gases

\$150.00

- Samples collected using diffusion samplers provided by the lab
- Analyses includes: N₂, Ar, CO₂, CH₄,
- Measurement error: $\pm 5\%$ of value

Shipping / Handling / Materials / Other

- Shipping and handling fees will be additional if needed
- Users are responsible for equipment damage and repair costs
- Pricing subject to change