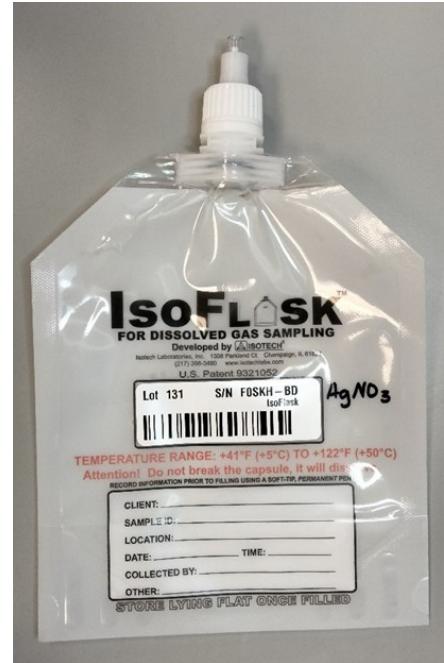


# H<sub>2</sub>S Scrubbing IsoFlask™ with Silver Nitrate

A new option for safe, precise isotopic analyses of sour gases with up to 30% H<sub>2</sub>S

This new Iso-brand product delivers the same high-quality, high-precision isotopic results that our customers have come to expect, while addressing concerns associated with the analysis of sour gas:

- ⇒ The Scrubbing IsoFlask uses a new approach to mitigate the severe isotopic fractionation that occurs with other methods. CO<sub>2</sub> fractionation is completely mitigated with this method.
- ⇒ Isotech does not have the capability to work with sour gas samples directly in our facility. The Scrubbing IsoFlask allows the H<sub>2</sub>S to be removed by personnel trained to handle H<sub>2</sub>S in the field, which allows Isotech to complete the analysis.



## How does it work?

Each Scrubbing IsoFlask comes pre-filled with 20 mL of the scrubbing reagent. The field technician will inject up to 300 cc of sample gas into the IsoFlask and allow the gas to react with the scrubbing solution.

The reaction is fast and visible—the solution will begin to turn black if H<sub>2</sub>S is present!

After the reaction has occurred, the field technician will then extract the remaining scrubbed gas from the IsoFlask into an IsoBag, which will be shipped back to Isotech for compositional and isotopic analyses.

## Example Results

Generated by analysis of Isotech high-precision isotopic reference standard

Component	Composition		δ13C	
	mol% Before	mol% After	% Before	% After
Methane	70.0	<b>70.4</b>	-41.00	<b>-40.93</b>
Ethane	10.0	<b>10.1</b>	-28.80	<b>-28.78</b>
Propane	7.07	<b>7.01</b>	-32.37	<b>-32.37</b>
i-Butane	2.54	<b>2.49</b>	-30.98	<b>-30.93</b>
n-Butane	2.55	<b>2.40</b>	-28.14	<b>-28.10</b>
i-Pentane	1.19	<b>1.08</b>	-27.52	<b>-27.45</b>
n-Pentane	1.18	<b>0.985</b>	-30.55	<b>-30.43</b>
CO <sub>2</sub>	5.48	<b>5.37</b>	-40.79	<b>-40.71</b>

Contact Isotech to request a quote!

Call: (217) 398-3490 or E-mail: [onlineorders@stratumreservoir.com](mailto:onlineorders@stratumreservoir.com)