

Analytical Services

Praxair Healthcare Services offers you a comprehensive analytical testing service program. Our experienced team of professionals in the Analytical Service Group is available to answer your questions through our 24-hour emergency response system, which includes on-call chemists.

We provide a twenty-four hour turnaround on gas analysis including:

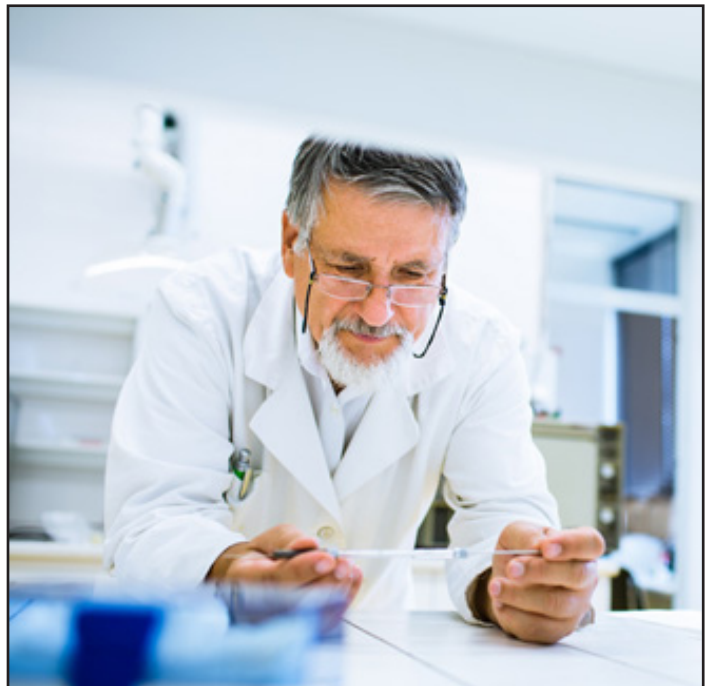
- Oxygen (trace nitrogen levels)
- Nitrogen (trace oxygen levels)
- Nitrous Oxide (trace nitrogen and oxygen levels). Trace analysis of the variable gases such as carbon dioxide, carbon monoxide, methane, and total volatile hydrocarbons (TVHC)
- Liquid hydrocarbons (oil mist) in air
- Particulate quantifications
- Halogenated hydrocarbons
- Analytes are identified and quantified at levels from percent (%) to parts per million (ppm)

In addition, we quantify and identify unexpected contaminants in your medical gases piping. Such analyses include:

- Elemental analysis
- Melting point determination
- Metallurgical analysis
- Metals characterization
- Particle size determination
- Particulate quantifications
- Bacterial and fungi determination

Several commercial cleaning agents for oxygen service are available, some of which are halogenated solvents containing hydrocarbons. If you use these solvents for cleaning your medical piping, we offer two test methods to check for trace contaminants of halogenated hydrocarbons in the system after it has been cleaned and then flushed, usually with nitrogen:

- On-site Detector Tubes: These are usually calibrated for a particular chemical or chemicals.
- Gas Chromatography: Using our remote sampling system, we are able to test samples in our lab on a gas chromatograph which can specifically identify a wider range of potential contaminants at parts per billion (ppb) levels, well below the regulatory limit of 2 parts per million. Contact our chemists for details.



Here are six good reasons to call Praxair Healthcare Services for your medical gases piping systems sampling and analyzing needs:

- In-house expertise in compressed gases
- On call for analysis outside of normal business hours
- Available twenty-four hour turnaround
- Gas chromatography through remote sampling identifies a wider range of potential contaminants
- Instrument calibration gases are NIST traceable
- We aim to provide accurate, consistent, reliable results... every time

For more information or a needs assessment and cost estimate, call us at:

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