

Life Sciences Gas Applications

(Helium He, Carbon Dioxide CO₂, Nitrogen N₂, Oxygen O₂)

YIGAS INTERNATIONAL LIMITED

1. Overview

Life science research depends on precise gas control for biological and medical studies. YIGAS delivers He, CO₂, N₂, and O₂ to laboratories and hospitals globally.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
He	≥99.999%	Gas	-269 °C	5—200 bar
CO ₂	≥99.9%	Liquid / Gas	-78.5 °C	10—60 bar
N ₂	≥99.999%	Gas	-196 °C	5—200 bar
O ₂	≥99.9%	Gas / Liquid	-183 °C	5—200 bar

3. Industrial Standards

All gases comply with:

- ISO 20421 – Cryogenic gas safety
- USP <1047> – Medical gas quality
- EIGA Doc 70/17 – Cryogenic handling

4. Applications

- He: MRI systems and research cooling
- CO₂: Cell culture control
- N₂: Cryostorage and blanketing
- O₂: Medical and lab testing

5. Packaging & Supply

Cylinder • Dewar Tank • On-site System

6. Contact Information

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This document provides reference specifications for YIGAS life sciences gases. Customized supply and technical support are available upon request.