

Cryopreservation Gas Standards

(Nitrogen N2, Helium He)

YIGAS INTERNATIONAL LIMITED

1. Overview

Cryopreservation gases are critical for preserving biological samples, tissues, and cells at ultra-low temperatures. YIGAS supplies high-purity nitrogen and helium with stable performance for medical, biotechnological, and laboratory use.

2. Technical Specifications

Gas	Purity Level	Typical Phase	Temperature Range	Common Pressure
N2	≥99.999%	Liquid / Gas	-196 °C	5—200 bar
He	≥99.999%	Gas / Liquid	-269 °C	5—200 bar

3. Industrial Standards

All gases comply with:

- ISO 20421 – Cryogenic vessel design and safety
- EIGA Doc 123/19 – Cryogenic handling guidelines
- USP <1046> – Cryogenic storage of biological materials
- GB/T 8982–2020 – Analytical gas purity standards

4. Applications

- N2: Cryogenic cell storage, tissue banks, vaccine logistics
- He: Ultra-low temperature cooling for cryogenic freezers

5. Packaging & Supply

Cylinder • Dewar Tank • Liquid Bulk

6. Contact Information

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