



MATHESON

The Gas Professionals

PET Target

Water

¹⁸O

Ultra-Pure Oxygen Cryogenic Distillation A Revolutionary New Process

Largest
Capacity

600kg per year

Stable Supply with 3 Independent Plants

Highest
Enrichment

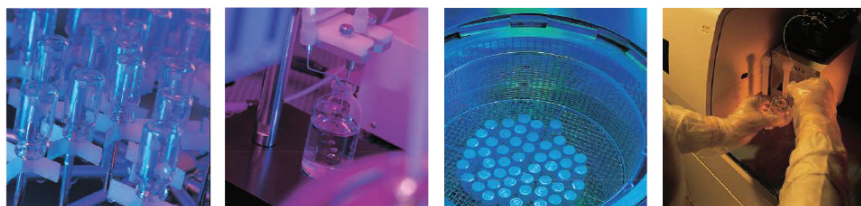
98atom%

High Yield of Fluorine-18

Quality
Assurance

GMP&ISO9001

Guaranteed High Quality



Product Specifications

- Formula: H_2^{18}O
- Chemical Purity : >99.99%
- Molecular Weight : 19.88
- Packing Size:
10g, 20g and 50g
- Container:
Glass vial septum top and
aluminum crimp seal



Test	Specification	Method
Oxygen- ^{18}O	≥ 98 atom%	TDLS
Oxygen- ^{17}O	<2 atom%	TDLS
Oxygen- ^{16}O	<2 atom%	TDLS
Sodium	<2mg/L	ICP-MS
Magnesium	<1mg/L	ICP-MS
Potassium	<1mg/L	ICP-MS
Calcium	<1mg/L	ICP-MS
Iron	<0.1mg/L	ICP-MS
Copper	<1mg/L	ICP-MS
Zinc	<1mg/L	ICP-MS
Ammonium	<1mg/L	IC
Fluoride	<1mg/L	IC
Chloride	<1mg/L	IC
Bromide	<1mg/L	IC
Nitrate	<1mg/L	IC
Phosphate	<1mg/L	IC
Sulfate	<1mg/L	IC
Iodide	<1mg/L	IC
Total Organic Carbon	<5mg/L	TOC analyzer
Conductivity	<0.3mS/m	Conductivity meter
pH	5.5-8.0	pH meter
Microbial limit	<1cfu/mL	Membrane filter
Pyrogenicity	<0.25 EU/mL	LAL
Appearance	Clear, Colorless, No visible object	Visual check

To Learn More, contact:

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PARTNERING TOGETHER



TAIYO NIPPON SANSO
The Gas Professionals



MATHESON
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Water ^{18}O is manufactured by MATHESON's sister company, Taiyo Nippon Sanso, Tokyo, Japan. MATHESON and Taiyo Nippon Sanso are members of Nippon Sanso Holdings Corporation.

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