NIPPON SANSO

PET Target

Water ^{18}O



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	< 2atom%	TDLS
Oxygen-^{16}O	< 2atom%	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
Pyrogenecity	< 0.25 EU/mL	LAL
Appearance	Clear, Colorless, No visible object	Visual check

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

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10/26

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