



Product Specifications

IASOwater ≥ 98%

sterile H₂O enriched in oxygen-18 ≥ 98%

Product Name: IASOwater ≥ 98%
Synonyms: ¹⁸O-enriched water ≥ 98%, ¹⁸O-water, [¹⁸O] – H₂O, H₂¹⁸O
Product Number: P99-006
Formula: H₂¹⁸O
CAS Number: 14314-42-2

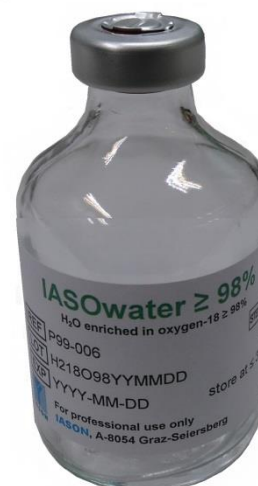
Packaging: labelled 50mL type 1 borosilicate glass vial, closed with red bromobutyl stopper and aluminium crimp seal / packaged in a foam inlay in a labelled, sealed metal can

Package Size: 100g (2 vials à 50g)

Label: product name and number, amount, batch number, intended use, storage conditions and expiry date, manufacturer name and logo

Shelf Life: 18 months (after terminal sterilisation)

Parameter	Specification	Method
Appearance	Clear and colourless liquid, free of visible particulates	Visual inspection
¹⁸ O-content	≥ 98 %	MS
Conductivity	≤ 3.0 µS/cm	Conductometric
pH	5.0 – 7.5	Potentiometric
Carbon	≤ 1.5 mg/L	Total organic carbon
Iron (Fe)	≤ 0.2 mg/L	AAS
Copper (Cu)	≤ 0.2 mg/L	AAS
Magnesium (Mg)	≤ 0.2 mg/L	AAS
Fluoride (F ⁻)	≤ 0.5 mg/L	IC
Chloride (Cl ⁻)	≤ 1.0 mg/L	IC
Nitrite (NO ₂ ⁻)	≤ 0.5 mg/L	IC
Bromide (Br ⁻)	≤ 1.0 mg/L	IC
Nitrate (NO ₃ ⁻)	≤ 0.5 mg/L	IC
Phosphate (PO ₄ ³⁻)	≤ 0.5 mg/L	IC
Sulphate (SO ₄ ²⁻)	≤ 1.5 mg/L	IC
Sodium (Na)	≤ 5 mg/L	IC / AAS
Potassium (K)	≤ 1 mg/L	IC / AAS
Calcium (Ca)	≤ 2 mg/L	IC / AAS
Sterility	Sterile	Ph.Eur. 2.6.1 / USP <71>
Pyrogenicity	< 0.25 EU/mL	LAL



IASON GmbH has implemented a quality program for the production, filling, packaging and analysis of ¹⁸O-enriched water. The quality program is built upon the ISO 9001 certification including the relevant aspects of GMP.