

^{18}O in the form of water for medical applications



Oxygen-18 is used to create tailored organochemical compounds labelled with the radio isotope ^{18}F (for example, 2-fluoro-2-deoxy glucose [^{18}F FDG]). These are used for Positron Emission Tomography (PET), the latest cancer diagnostic technique.

Our Oxygen-18 products are manufactured in accordance with cGMP regulations and with the requirements of 21 Code of Federal Regulations: PARTS 210 and 211.

Oxygen-18 in the form of water

Specification

Physical and chemical properties:

- Material ^{18}O in the form of water.
- Enrichment $^{18}\text{O} > 98\text{at}\%$
 $^{17}\text{O} < 2\text{at}\%$
 $^{16}\text{O} < 2\text{at}\%$
- Purity $> 99.9\%$
- Conductivity $< 2 \mu\text{S}/\text{cm}$
- pH 6 – 8
- Pyrogen $< 0.25 \text{EU}/\text{ml}$
- Sterility passed test
- Volume Available in various volumes (please contact us).

Impurities in $\mu\text{g}/\text{g}$:

Al	≤ 0.05
Br	≤ 0.5
Ca	≤ 0.1
Cl	≤ 0.5
Cu	≤ 0.01
F	≤ 0.05
Fe	≤ 0.01
K	≤ 0.1
Mg	≤ 0.05
Na	≤ 1
NO_2	≤ 0.1
NO_3	≤ 0.05
PO_4	≤ 0.05
Si	≤ 1
SO_4	≤ 0.1
TOC	≤ 1
Zn	≤ 0.05

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