



**HUAYI ISOTOPES**



Oxygen-18 Water



Ancillaries



Custom Synthesis



Reagent Kits



Sterile Vials

---

# About Us



Huayi Isotopes Co. (HIC), a manufacturer of Oxygen-18 water, biochemical compounds and sterile components, is dedicated to leading-edge development of new biochemistry platforms critical for the advancement of diagnostic imaging.



We provide a broad catalog of products designed to meet the needs of our basic and applied research customers, as well as commercial cGMP products and services. We also offer custom synthesis, consulting expert and custom manufacturing services related to radiopharmacy and molecular imaging.



HIC has a cutting-edge research and development strategy geared toward meeting the emerging needs of the medical community with both commercial and academic collaborations in mind. Our molecular imaging platform technology is adaptable to a broad range of radionuclides such as fluorine- 18, carbon-11 and technetium-99m for Positron Emission Tomography (PET) and Single-Photon Emission Computed Tomography (SPECT) imaging. Since 2002, HIC has been a trusted name in the radiopharmacy industry.



# Oxygen-18 Water

## **WT-98**

$^{18}\text{O}$  enriched water (98 atom%) GMP Grade

### Application

FDG and other F-18 labelling biomarker production

### Standard Packing

WT-98-0050 50 g / vial

WT-98-0020 20 g / vial

WT-98-0010 10 g / vial



## **WT-10**

Oxygen-18 Enriched Water /10 atom%

### Application

Paleoclimatology and metabolic studies

### Standard Packing

WT-10-0100 100 mL / bottle

WT-10-1000 1 L / bottle

## **DLW-1010**

Doubly labeled water ( 10 atom%  $^{18}\text{O}$ , 10 atom% D)

### Application

Energy expenditure measurement in humans and animals

### Standard Packing

DLW-10-0100 100 mL / bottle

DLW-10-1000 1 L / bottle





# Reagent Kits & Ancillaries

## Reagent Kits

- Reagent Kits for
- GE TRACERlab MX
  - GE TRACERlab FX<sub>FDG</sub> / FX<sub>F-N</sub>
  - GE TRACERlab C-Pro
  - IBA Synthera
  - Siemens Explora FDG<sub>4</sub>
  - ORA Neptis
  - Scintomics GRP



## Ancillaries

- Cartridge
- Sterile filter
- Sterile syringe
- Sterile needle
- Other consumables

## Cassettes

- Cassettes for
- GE TRACERlab MX
  - IBA Synthera
  - Trasis AIO/ Trasis Mini AIO
  - Neptis



Synthesis Module	Radiotracer	Reagent Kit Cat. No.	Ancillaries Set Cat. No.	Cassette	Precursor
GE TRACERlab MX	[ <sup>18</sup> F]-FDG	RK-100	AS-100A	KT-110	MT-99-0025C
GE TRACERlab FX <sub>FDG</sub> / FX <sub>F-N</sub>	[ <sup>18</sup> F]-FDG(Acid Hydrolysis)	RK-102	○	○	MT-99-0020A
GE TRACERlab FX <sub>FDG</sub> / FX <sub>F-N</sub>	[ <sup>18</sup> F]-FDG(Base Hydrolysis)	RK-101	AS-101	○	MT-99-0020A
IBA Synthera	[ <sup>18</sup> F]-FDG(Pharm. Grade)	RK-210	AS-200P	SYNP	MT-99-0020B
IBA Synthera	[ <sup>18</sup> F]-FDG(Chem. Grade)	RK-211	AS-200C	SYNC	MT-99-0020B
Siemens FDG <sub>4</sub>	[ <sup>18</sup> F]-FDG(4Runs)	RK-500	AS-500	○	MT-99-0450D
Trasis AIO/ Trasis Mini AIO	[ <sup>18</sup> F]-FDG(1Run)	RK-811-2	○	KT-811-2	MT-99-0030FH
GE TRACERlab MX	[ <sup>18</sup> F]-FLT	RK-113	AS-113	○	○
GE TRACERlab MX	[ <sup>18</sup> F]-NaF	RK-115	AS-115	KT-115	○
GE TRACERlab MX	[ <sup>18</sup> F]-Fcholine	RK-116	AS-116	KT-116	○
GE TRACERlab FX <sub>F-N</sub>	[ <sup>18</sup> F]-FLT	RK-103	AS-103	○	○
GE TRACERlab FX <sub>F-N</sub>	[ <sup>18</sup> F]-Fluoro-ethylcholine	RK-105	AS-105	○	BTE-95-0020A
GE TRACERlab FX <sub>F-N</sub>	[ <sup>18</sup> F]-Fluoroacetate	RK-106	AS-106	○	○
GE TRACERlab FX <sub>F-N</sub>	[ <sup>18</sup> F]-FMISO	RK-107	AS-107	○	NTTP-97-0010A
GE TRACERlab C-Pro	[ <sup>11</sup> C]-Choline	RK-111	○	○	○
GE TRACERlab C-Pro	[ <sup>11</sup> C]-MET	RK-112	AS-112	○	HCT-95-0002A
GE TRACERlab C-Pro	[ <sup>11</sup> C]-Raclopride	RK-117	AS-117	○	DMR-95-0002A
IBA Synthera	[ <sup>18</sup> F]-NaF	RK-201	AS-201	SYCC	○
IBA Synthera	[ <sup>18</sup> F]-FLT	RK-202	AS-202	SYNC	○
IBA Synthera	[ <sup>18</sup> F]-Fluoromethylcholine	RK-203	AS-203	SYAP,SYDP	○
IBA Synthera	[ <sup>18</sup> F]-FMISO	RK-205	AS-205	SYNP	NTTP-97-0010B
Trasis AIO/ Trasis Mini AIO	Ga-68 DOTA-X	RK-816	○	○	○

○ Not included



# Custom Synthesis

## ● Research Center for Biochemical Compounds

HIC provides custom synthesis services to academic and government institutions, as well as some of the world's leading corporations, under strict confidence.

We supply the precursors for normal GMP production, as well as some research compounds for new tracers.

- Experienced scientists with PhD's, chemical engineers, technicians
- Fully equipped laboratories include HPLC, GC, NMR, Waters PrepLC, etc.
- Custom packaging for all quantities, including bulk quantities
- cGMP production in full compliance with ICH Q7A (for APIs)
- Confidentiality guaranteed
- Technical support
- More than 300 PET precursors in stock





# Biochemical

## Precursors & Reference Standards

### ● PET

DOTA-TOC	DOTA	DOTAEt	NOTA
ABP688	ADIBO	AMD	Beta-CFT
Beta-CIT	Choline	DAA1106	DASB
Fallypride	FAZA	FDG	FDOPA
FES	FET	FETA	FHBG
FLB457	FLT	Flumazenil	Fluoro-2'-Deoxyadenosine
Fluoro-Altanserin	Fluoro-Dopamine	Fluoro-L-proline	Fluoro-Setoperone
FMAU	FMISO	FMT	FPD
Mefway	MET	ML-10	MPPF
MDL100907	NNC112	PBR06	PBR111
PBR28	PHNO	PIB	PK11195
Raclopride	THK523	T-807	WAY100635
<sup>18</sup> F-SFB and aryl fluoride	Intermediates for Alkyl fluoride		<a href="#">Click chemistry Reagent</a>
F18 Ion Tracer	etc.		

### ● SPECT

Beta-CIT	Hippuran	IBZM	IMZ
MIBG	etc.		

● Precursor only

● Reference standard only

● Precursor & reference standard



## Sterile Vial

HIC's sterile vials are ISO 13485, ISO9001, CE and GMP-certified. Our facility finishes the sterilization on the final product, allowing us to limit endotoxin level to meet strict specifications.

- SV—— Sterile Vial (air-filled)  
flip top seal (trans. blue)
- SVV—— Sterile Vacuum vial  
flip top seal (blue )
- NSV—— Nitrogen-filled Sterile Vial  
flip top seal (trans. yellow)
- SSV—— Saline-filled Sterile Vial  
flip top seal (trans. green)



Standard product format:

- Type I glass vial
- Straight plug rubber stopper
- Transparent label
- Flip top seal

All parts can be custom made. Refer to the following description.



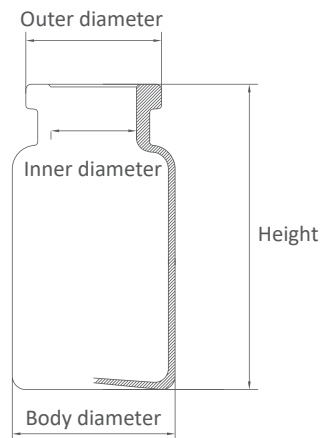




## Vial Size

A selection of vials with all USP type I glass, with volumes ranging from 5ml to 100ml, is available. Please request detailed information from our sales department.

Vial No.	Vol.(ml)	Height	Outer diameter	Inner diameter	Body diameter
5A	5.2ml	53.0±0.5mm	12.8±0.2mm	6.7±0.2mm	14.8±0.2mm
5B	8.5ml	36.0±0.5mm	19.8±0.2mm	12.6±0.2mm	22.0±0.2mm
10A	11.4ml	47.0±0.5mm	19.8±0.2mm	12.6±0.2mm	22.0±0.2mm
10B	12.4ml	45.0±0.5mm	19.8±0.2mm	12.6±0.2mm	24.0±0.2mm
10C	12.0ml	49.5±0.5mm	19.8±0.2mm	12.6±0.2mm	22.0±0.2mm
10D	12.2ml	52.0±0.5mm	19.8±0.2mm	12.6±0.2mm	22.0±0.2mm
10E	12.0ml	45.0±0.5mm	19.8±0.2mm	12.6±0.2mm	24.0±0.2mm
15A	17.6ml	52.5±0.5mm	19.8±0.2mm	12.6±0.2mm	25.5±0.25mm
15B	17.3ml	52.0±0.5mm	19.8±0.2mm	12.6±0.2mm	25.0±0.2mm
15C	17.6ml	53.3±0.3mm	20.0±0.2mm	12.6±0.2mm	25.5±0.25mm
20A	25.0ml	58.0±0.5mm	19.8±0.2mm	12.6±0.2mm	31.8±0.3mm
20B,25A	23.0ml	55.0±0.5mm	19.8±0.2mm	12.6±0.2mm	30.0±0.3mm
30A	35.0ml	66.0±0.5mm	19.8±0.2mm	12.6±0.2mm	32.0±0.3mm
30B	39.0ml	70.0±0.5mm	19.8±0.2mm	12.6±0.2mm	32.0±0.3mm
30C	34.0ml	62.7±0.5mm	19.8±0.2mm	12.6±0.2mm	35.8±0.3mm
30F	36.5ml	67.0±0.5mm	19.8±0.2mm	12.6±0.2mm	32.0±0.3mm
30G	33.0ml	68.0±0.5mm	19.8±0.2mm	12.6±0.2mm	30.0±0.3mm
50A	60.0ml	72.5±0.5mm	19.8±0.2mm	12.6±0.2mm	42.5±0.4mm
100A	139.0ml	110.0±1.0mm	28.1±0.2mm	16.6±0.2mm	52.5±0.6mm
100B	117.0ml	95.0.0±1.0mm	19.8±0.2mm	12.6±0.2mm	51.5±0.6mm



## Conventional Inventory

Cat. No.	Packaging	Minimum Inventory
NSV-10C	100/Tray	●
SV-10E	100/Tray	●
SV-30C	50/Tray	●
SVV-10A	100/Tray	●
SVV-10C	100/Tray	●
SVV-10D	100/Tray	●
SVV-15A	100/Tray	●
SVV-20A	50/Tray	●
SVV-20B	50/Tray	●
SVV-25A	50/Tray	●
SVV-30A	50/Tray	●
SVV-30C	50/Tray	●

● 5000pcs ● 1000pcs ● 500pcs



# Sterile Vial

## ● Seal

- Wide range of styles
- Color selection includes silver, yellow, red, blue and green



## ● Stopper

- Available in Straight Plug, 1-Leg, 2-Leg and 3-Leg styles
- Material: Chloro butyl rubber stopper; Bromo butyl rubber stopper; Teflon-coated butyl rubber stopper



## ● Label

- Transparent plastic label (standard label)
- Without label



## ● Packaging



Standard packing for unidoses dispensing



Double-layer packing for FDG dispensing



# Quality Assurance

The staff is specially trained with an emphasis on adherence to work instructions and the utmost attention to quality.

All aspects, including material control, manufacturing process, quality control, supplier administration, etc. are defined in a set of Standard Operation Procedures.



A complete GMP quality system has been established in accordance with ICH Q7a. The system has been audited and approved by various companies such as IBA, Siemens and GMS. It has also been certified by the US Food and Drug Administration (FDA) (cGMP). It also holds ISO9001, ISO13485, and CE certification, by global qualification organizations such as Intertek, GTS and NQA.

We are more than happy to support your specific local registration needs if necessary.





**Canada**

**Huayi Isotopes Co. (Canada)**

70 Fulton Way, Unit 102 Richmond Hill,  
Ontario, L4B 1J5 Canada

Phone: +1 416-298-3366

Fax: +1 416-298-9366

E-mail: [antony@huayi-isotopes.com](mailto:antony@huayi-isotopes.com)

[www.hic.cc](http://www.hic.cc)



**China**

**Huayi Isotopes Co. (China)**

18 Fuyu Road, Haiyu Town  
Changshu, Jiangsu, P. R. China 215522

Phone: +86 512-5249-1118

Fax: +86 512-5245-1806

E-mail: [sales@huayi-isotopes.com](mailto:sales@huayi-isotopes.com)

[www.hic.cc](http://www.hic.cc)