



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}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}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

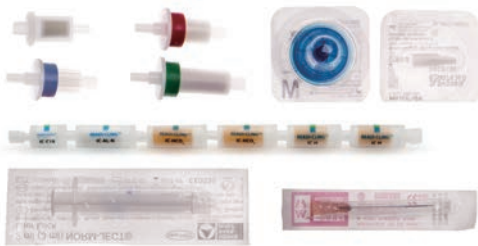




Reagent Kits & Ancillaries

Reagent Kits

- Reagent Kits for
- GE TRACERlab MX
 - GE TRACERlab FX_{FDG} / FX_{F-N}
 - GE TRACERlab C-Pro
 - IBA Synthera
 - Siemens FDG₄
 - Trasis AIO/ Trasis Mini AIO
 - Neptis



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	[¹⁸ F]-FDG	RK-100	AS-100A	KT-110	MT-99-0025C
GE TRACERlab FX _{FDG} / FX _{F-N}	[¹⁸ F]-FDG(Acid Hydrolysis)	RK-102	○	○	MT-99-0020A
GE TRACERlab FX _{FDG} / FX _{F-N}	[¹⁸ F]-FDG(Base Hydrolysis)	RK-101	AS-101	○	MT-99-0020A
IBA Synthera	[¹⁸ F]-FDG(Pharm. Grade)	RK-210	AS-200P	SYNP	MT-99-0020B
IBA Synthera	[¹⁸ F]-FDG(Chem. Grade)	RK-211	AS-200C	SYNC	MT-99-0020B
Siemens FDG ₄	[¹⁸ F]-FDG(4Runs)	RK-500	AS-500	○	MT-99-0450D
Trasis AIO/ Trasis Mini AIO	[¹⁸ F]-FDG(1Run)	RK-811-2	○	KT-811-2	MT-99-0030FH
GE TRACERlab MX	[¹⁸ F]-FLT	RK-113	AS-113	○	○
GE TRACERlab MX	[¹⁸ F]-NaF	RK-115	AS-115	KT-115	○
GE TRACERlab MX	[¹⁸ F]-Fcholine	RK-116	AS-116	KT-116	○
GE TRACERlab FX _{F-N}	[¹⁸ F]-FLT	RK-103	AS-103	○	○
GE TRACERlab FX _{F-N}	[¹⁸ F]-Fluoro-ethylcholine	RK-105	AS-105	○	BTE-95-0020A
GE TRACERlab FX _{F-N}	[¹⁸ F]-Fluoroacetate	RK-106	AS-106	○	○
GE TRACERlab FX _{F-N}	[¹⁸ F]-FMISO	RK-107	AS-107	○	NTTP-97-0010A
GE TRACERlab C-Pro	[¹¹ C]-Choline	RK-111	○	○	○
GE TRACERlab C-Pro	[¹¹ C]-MET	RK-112	AS-112	○	HCT-95-0002A
GE TRACERlab C-Pro	[¹¹ C]-Raclopride	RK-117	AS-117	○	DMR-95-0002A
IBA Synthera	[¹⁸ F]-NaF	RK-201	AS-201	SYCC	○
IBA Synthera	[¹⁸ F]-FLT	RK-202	AS-202	SYNC	○
IBA Synthera	[¹⁸ F]-Fluoromethylcholine	RK-203	AS-203	SYAP,SYDP	○
IBA Synthera	[¹⁸ 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-TATE	DOTA-TOC	DOTA-NOC	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	¹⁸ F-SFB and aryl fluoride	Intermediates for Alkyl fluoride
	Click chemistry Reagent	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 endotoxic 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.

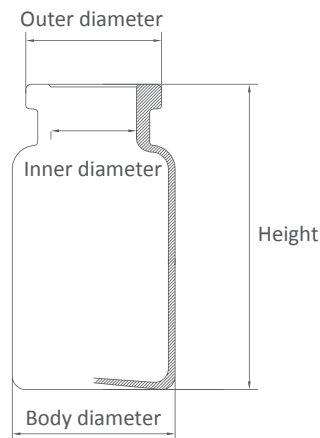




Vial Size

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 unidose 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.





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