

<b>NRC FORM 7</b> (8-2009) 10 CFR 110		<b>U.S. NUCLEAR REGULATORY COMMISSION</b>		<b>APPROVED BY OMB: NO. 3150-0027</b> Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submission is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Records and FOIA/Privacy Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to <a href="mailto:infocollects.resource@nrc.gov">infocollects.resource@nrc.gov</a> , and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0027), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.		<b>EXPIRES: 08/31/2012</b>	
<b>APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL</b> <i>(See Instructions on Page 5)</i>							
<b>PART A. FOR NRC USE ONLY</b>		<input checked="" type="checkbox"/> PUBLIC    OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED <div style="text-align: right; font-size: 1.2em;">MAR 13 2012</div>			
LICENSE NUMBER <div style="font-size: 1.5em;">XMAT419</div>		DOCKET NUMBER <div style="font-size: 1.5em;">11005993</div>		ADAMS ACCESSION NUMBER			
<b>PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS OR NOTIFICATIONS</b> (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
1. NAME AND ADDRESS OF APPLICANT/LICENSEE  <b>Cambridge Isotope Laboratories Inc.</b> <b>50 Frontage Road</b> <b>Andover, MA. 01810</b>		1a. NAME OF APPLICANT'S CONTACT <div style="text-align: center;">Gary Ionta</div>		1b. APPLICANT'S REFERENCE NUMBER			
		1c. PHONE NUMBER <div style="text-align: center;">(978) 749-8000</div>		1d. FAX NUMBER <div style="text-align: center;">(978) 749-2768</div>			
		1e. E-MAIL ADDRESS <div style="text-align: center;">garyi@isotope.com</div>					
2. TYPE OF ACTION REQUESTED (Check One) <input checked="" type="checkbox"/> EXPORT (Parts B, C, E) <input type="checkbox"/> NOTIFICATION OF EXPORT OF INCIDENTAL RADIOACTIVE MATERIAL (PART C, E) <input type="checkbox"/> IMPORT (Parts B, D, E) <input type="checkbox"/> COMBINED EXPORT/IMPORT (Parts B, C, D, E) <input type="checkbox"/> AMENDMENT/RENEWAL Existing License Number: _____							
3. CONTRACT NUMBER(S)		4. FIRST SHIPMENT DATE <div style="text-align: center;">04/01/2012</div>		5. LAST SHIPMENT DATE <div style="text-align: center;">04/30/2017</div>		6. PROPOSED EXPIRATION DATE <div style="text-align: center;">04/30/2017</div>	
<b>PART C. TO BE COMPLETED FOR EXPORT ONLY OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS</b> (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)							
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT  <b>Cambridge Isotope Laboratories, Inc.</b> <b>50 Frontage Road</b> <b>Andover, MA. 01810</b>		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S)  <b>LGC Promochem India PVT. Ltd,</b> <b>No. 401-402, Model Exp. Bhavan</b> <b>Plot No.488 B, 14th</b> <b>Cross Bangalore 560-058, India</b> <b>SD Fine Chemicals LTD.</b> <b>315-317, T.V. Indl. Estate</b> <b>248, Worli Road</b> <b>Mumbai 400-030, India</b>		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S)  <b>Indian Institute of Science, NMR</b> <b>Research Center, Bangalore 560012,</b> <b>India</b>  Also see page 3			
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED <b>Supplier/distributors</b>		8a. INTERMEDIATE USE(S)		9a. ULTIMATE END USE(S) Also see page 3			
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT  <b>Non-radioactive,</b> <b>Deuterium gas</b> <b>Deuterium oxide</b> <b>Deuterium compounds</b>		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)  <div style="text-align: center;">10,000Kg</div>		10b. MAX ENRICHMENT OR WGT %  <div style="text-align: center;">99.99%</div>		10c. MAX ISOTOPE WGT (KG)  <div style="text-align: center;">N/A</div> <b>non-radioactive material, not radioactive waste</b>	
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)							

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# **APPLICATION FOR NRC EXPORT/IMPORT LICENSE, AMENDMENT, OR RENEWAL (Continued)**

LICENSE NUMBER <b>XMAT 419</b>	DOCKET NUMBER <b>11005993</b>	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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## **PART D. TO BE COMPLETED FOR IMPORT ONLY, OR COMBINED LICENSES, AMENDMENTS, OR RENEWALS** (If more space is needed to complete any of the items, use Pages 3-4 first, and then attach additional sheets, if necessary.)

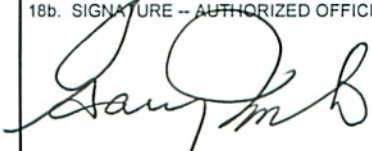
12. NAME(S) / ADDRESS(ES) OF FOREIGN SUPPLIERS AND/OR OTHER PARTIES TO IMPORT	13. NAME(S) / ADDRESS(ES) OF INTERMEDIATE CONSIGNEE(S)	14. NAME(S) / ADDRESS(ES) OF ULTIMATE CONSIGNEE(S)
12a. NRC EXPORT LICENSE NUMBER(S) (if applicable)	13a. LICENSE NUMBER(S) / EXPIRATION DATE(S)	14a. LICENSE NUMBER(S) / EXPIRATION DATE(S)
	13b. INTERMEDIATE USE(S)	14b. ULTIMATE END USE(S)
15. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES	15a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq)	15b. MAX ENRICHMENT OR WGT %
		15c. MAX ISOTOPE WGT (KG)

16. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)

## **PART E. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, OR RENEWALS**

17. ADDITIONAL INFORMATION PROVIDED ON PAGES 3, 4, AND/OR ON SEPARATE SHEETS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	17a. COPIES OF RECIPIENTS' AUTHORIZATIONS PROVIDED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
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**18. CERTIFICATION:** I, the applicant's authorized official, hereby certify that this application is prepared in conformity with Title 10, Code of Federal Regulations, and that all information provided is correct to the best of my knowledge.

18a. PRINT NAME AND TITLE OF AUTHORIZED OFFICIAL <b>Gary Ionta, Export Compliance Officer</b>	18b. SIGNATURE -- AUTHORIZED OFFICIAL 	18c. DATE <b>3/12/12</b>
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

## Form NRC 7. Part C 9. - Name(s)/ Address(es) of ultimate foreign consignee(s)

TATA Institute of Fundamental, Homi Bhabha Road, Mumbai 400005, India  
 All India Institute of Medical Science, Ansari Nagar, New Delhi 110029, India  
 CCMB Center Cellular & Mol Bio, Uppal Road 500007, Hyderabad, India  
 Indian Institute of Chemical Biology, Mukherjee Lab, 4 Raja SC Mullick Road, Kolkata, WB 700032  
 Astrazeneca India PVT. LTD, Avishkar Off Bellary Rd., PB NO. 2483 Hebbal, Bangalore 560 24, India  
 GVK Biosciences Private LTD, Plot No. 5C, IDA Uppal, Uppal Hyderabad 500039, India  
 Varda Biotech (P) 110-111, Kartik Complex, New Link Road, Andheri (west), Mumbai 400053  
 Vimta Labs. LTD, Life Science Facility, Plot No. 5 SP Biotech Park, Genome Valley Hyderabad, India  
 M/S Barfani Group, M-5/9 @nd Floor, DLF Phase 2, Gurgaon, Haryana 122002, India  
 Mount Biosciences, 306, Manu Ashraya apts. Mahesh Nagar, Near Ecil, Hyderabad 500062, India  
 Syngene International Limited, BSEZ-S2 unit 1, Bommasandra Jigan link Road, Bangalore 560100 Karnataka, India  
 National Center for Cell Science, Pune University Campus, Ganeshkhin, Pune 411007, India  
 Inogen Laboratories Private Limited, 28 A. IDA Nacharam, Hyderabad 500076, India  
 Center for Biomedical Magnetic Resonance, Institute of Medical Science Campus, Rae Bareilly Road, Lucknow, India  
 Bose Institute, Dept. of Biophysics, P1/12 CIT Scheme VII (M), Kolkata 700054, India  
 Neuland Laboratories LTD, R&D Center, Bonthapally Villa, Jinnam (M), Medak District 502313 (A.P.), India  
 Praxair India Private LTD, No. 8 Ulsoor Road, Bangalore 560042, India  
 Chemtron Science Laboratory, EL- 47 Electronics Zone, TTC INDL. Area Mahape, Navi Mumbai 400703, India  
 INOX Air Products LTD., C-109/110 TTC INDL Area Midc, Pawane, Navi Mumbai, India

## NRC 7. Part C. 9a. - Ultimate end use(s)

Cambridge Isotope Laboratories, Inc. plan to sell the various deuterium compounds to the ultimate consignees (listed in Part C. 9.) for further distribution into the India medical, pharmaceutical, chemical and industrial markets. Their customers in India typically use these materials in relatively small quantities, (less than 1 Kg) for scientific research. This type of research may include identification of chemicals in reaction pathways, metabolic studies, or environmental analysis. No material will be used in any activity related to isotope separation, heavy water production, or in the fabrication of nuclear fuel.

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**Cambridge Isotope Laboratories, Inc.**

50 Frontage Road, Andover, MA 01810-5413 USA  
PH: 800.322.1174 (N. AMERICA) PH: 978.749.8000  
FAX: 978.749.2768 WEB: [www.isotope.com](http://www.isotope.com)

March 12, 2011

Deputy Director  
Office of International Programs  
U.S. Nuclear Regulatory Commission  
Washington, DC. 20555-0001

Dear Deputy Director:

Enclosed please find three (3) completed NRC Export License applications (form 7) for the export of deuterium gas, deuterium oxide and deuterium compounds. Each of these licenses applications are country specific for India, Israel and Japan. A fee of \$9600.00 per application has been assigned by Ms. Jill Shepherd which has been submitted electronically per the License fee and Accounts Receivable Branch instructions.

If you have any questions please contact me at your convenience.

Sincerely,

Gary J. Ionta  
EH&S Officer/Export Compliance Officer  
Cambridge Isotope Laboratories Inc.  
50 Frontage Road  
Andover, MA. 01810  
(978) 296-1924  
[garyi@isotope.com](mailto:garyi@isotope.com)

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