


NRC FORM 7 (11-2012) 10 CFR 110		U. S. NUCLEAR REGULATORY COMMISSION	APPROVED BY OMB: NO. 3150-0027 Estimated burden per response to comply with this mandatory collection request: 2.4 hours. This submittal is reviewed to ensure that the applicable statutory, regulatory, and policy considerations are satisfied. Send comments regarding burden estimate to the Information Services Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov , 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.	EXPIRES: (11/30/2015)
APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) <i>(See Instructions on Pages 4 and 5)</i>				
PART A. FOR NRC USE ONLY		<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC		DATE RECEIVED 12-3-13
LICENSE NUMBER XB1330		DOCKET NUMBER 11006130		ADAMS ACCESSION NUMBER
PART B. TO BE COMPLETED FOR ALL LICENSES, AMENDMENTS, RENEWALS, OR CONSENT REQUESTS (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 MP Biomedicals LLC 3 Hutton Centre Drive #100 Santa Ana, CA 92707		1a. NAME OF APPLICANT'S CONTACT Bill Richardson		1b. APPLICANT'S REFERENCE NUMBER
		1c. PHONE NUMBER (440) 337-1200		1d. FAX NUMBER (440) 337-1180
		1e. E-MAIL ADDRESS warichardson@mpbio.com		
2. TYPE OF ACTION REQUESTED (Check One)				
<input checked="" type="checkbox"/> EXPORT (Parts B, C, E) <input type="checkbox"/> IMPORT (Parts B, D, E) <input type="checkbox"/> AMENDMENT/RENEWAL (Current License Number: _____) <input type="checkbox"/> CONSENT REQUEST (Parts B, C) (Current License Number: _____)				
3. CONTRACT NUMBER(S)		4. FIRST SHIPMENT DATE within 1-3 weeks of approval		5. LAST SHIPMENT DATE ongoing
				6. PROPOSED EXPIRATION DATE 12/31/2018
PART C. TO BE COMPLETED FOR EXPORT 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.)				
7. NAME(S) / ADDRESS(ES) OF SUPPLIERS AND/OR OTHER PARTIES TO THE EXPORT MP Biomedicals, LLC 29525 Fountain Parkway Solon, Ohio 44139 USA		8. NAME(S) / ADDRESS(ES) OF INTERMEDIATE FOREIGN CONSIGNEE(S) Mohammad T. Lotfi-Jam (Managing Director) Yavaran Teb Jam Company 41 Khaghani Street, Darvazehdolat Tehran 1571913371, Iran		9. NAME(S) / ADDRESS(ES) OF ULTIMATE FOREIGN CONSIGNEE(S) 1) Bernard Laboratory, Haft Tir Sq., Mazandarani Alley., No. 18 Tehran, Iran 2) Boghrat Laboratory, Piroozi St., No.100 Tehran, Iran 3) Chehr Laboratory, Shariati St., No. 1006 Tehran, Iran 4) Danesh Laboratory, Vesal Shirazi St., Fard Danesh St., No. 23 Tehran, Iran 5) Day Hospital, Vali Asr St., Shahid Abbas Pour St., Tehran Iran
7a. FUNCTION(S) PERFORMED/SERVICE(S) PROVIDED Medical Diagnostic Kits		8a. INTERMEDIATE USE(S)		9a. ULTIMATE END USE(S) Medical Diagnostic Kits
10. DESCRIPTION OF RADIOACTIVE MATERIALS, SEALED SOURCES, NUCLEAR FACILITIES, EQUIPMENT, OR COMPONENTS; FOR NUCLEAR EQUIPMENT INCLUDE TOTAL DOLLAR VALUE OF EQUIPMENT FOR EXPORT Laboratory diagnostic kits which each contain <20 µCi of byproduct material. All but one of the kits contain only iodine-125, and one kit contains both iodine-125 and cobalt-57. These isotopes are provided in an aqueous solution, and they are bound to steroid or polypeptide hormones or to antibodies to those hormones. The maximum total activity for all kits over the requested five year license...		10a. MAX TOTAL VOLUME / ELEMENT WGT (KG), OR TOTAL ACTIVITY (TBq) For the maximum five year license life: 0.03 TBq		10b. MAX ENRICHMENT OR WGT % N/A
		10c. MAX ISOTOPE WGT (KG) N/A		
11. FOREIGN OBLIGATIONS (BY COUNTRY AND BY PERCENTAGE OF MAXIMUM TOTAL VOLUME)				

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U. S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT
LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)


LICENSE NUMBER XB1330	DOCKET NUMBER 11006130	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 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 U. S. 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, RENEWALS OR CONSENT REQUEST(S)

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 type="checkbox"/> NO
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 BILL RICHARDSON DIRECTOR OF TECHNICAL OPERATIONS	18b. SIGNATURE - AUTHORIZED OFFICIAL 
18c. DATE 11-14-13	

*Rec'd
Jul 15 2013*

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U. S. NUCLEAR REGULATORY COMMISSION

APPLICATION FOR NRC EXPORT OR IMPORT LICENSE, AMENDMENT, RENEWAL, OR CONSENT REQUEST(S) (Continued)

LICENSE NUMBER XB1330	DOCKET NUMBER 11 CB 6130	ADAMS ACCESSION NUMBER	<input checked="" type="checkbox"/> PUBLIC OR <input type="checkbox"/> NON-PUBLIC
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ADDITIONAL INFORMATION (Reference applicable block numbers from page 1 and/or page 2 for each entry)

C7a. Description of the Products:

There are twenty laboratory diagnostic kits that are the subject of these four classification requests and each are described below. None of these kits are point of care.

Description of Isotopes (Iodine-125 and Cobalt-57) Contained in the Diagnostic Kits:

Each kit contains iodine-125. One kit, the B12/Folate-SNB Kit 100T, also contains cobalt-57 in addition to iodine-125.

The iodine is used to generate the signal which allows the laboratory technician to quantify the level of hormone present in a patient sample. When iodine-125 decays, it produces a gamma ray which can be detected using a laboratory gamma counter. At the conclusion of the test, the amount of iodine-125 remaining in the assay tube is proportional (sometimes inversely proportional) to the amount of hormone being measured. MP Biomedicals is not aware of any other uses for the iodine-125 (or cobalt-57) used in the kits. It is important to note that these isotopes are linked (bound) to the hormone being tested. They are not free isotopes in solution. For example, the iodine-125 contained in the Testosterone kit is linked to a testosterone derivative. It is provided in the kit as testosterone-histamine-125I. Any other application would require the significant effort to uncouple the iodine-125 from the hormone and isolate it.

Description of the Individual Kits:

- (1) T3 Uptake Kit 100T: 125 IIA Kit for the in-vitro determination of percentage of T3 uptake in 0.025 mL of human serum or plasma; and
- (2) Androstenedione Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of androstenedione in 0.3 mL of extracted human serum or plasma; and
- (3) DHEA Sulfate Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of DHEA-sulfate in 0.025 mL of human serum or plasma.
- (4) Testosterone Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of testosterone in 0.05 mL of human serum or plasma.
- (5) Progesterone Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of progesterone in 0.1 mL of human serum or plasma.
- (6) Free T4 Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of unbound (free) T4 in 0.05 mL of human serum or plasma.
- (7) LH Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human luteinizing hormone in 0.1 mL of human serum or plasma.
- (8) Growth Hormone Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human growth hormone in 0.1 mL of human serum or plasma.
- (9) Total T4 Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of T4 in 0.025 mL of human serum or plasma
- (10) 17OH-Progesterone Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of 17OH-progesterone in 0.01 mL of human serum or plasma.
- (11) Free T3 Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of unbound (free) T3 in 0.1 mL of human serum or plasma.
- (12) Total T3 Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of T3 in 0.1 mL of human serum or plasma.
- (13) Cortisol Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of cortisol in 0.025 mL of human serum or plasma.
- (14) ACTH Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human ACTH in 0.1 mL of human EDTA plasma.
- (15) Prolactin Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human prolactin in 0.025 mL of human serum
- (16) FSH Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human follicle stimulating hormone in 0.1 mL of human serum or plasma

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C7a. Continued:

(17) Insulin Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human insulin in 0.1 mL of human serum or EDTA plasma.

(18) Ferritin Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of ferritin in 0.04 mL of human serum.

(19) TSH Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of human thyroid stimulating hormone in 0.2 mL of human serum or plasma.

(20) B12/Folate-SNB Kit 100T: FDA cleared 125I RIA Kit (100 tubes) for the in-vitro determination of vitamin B12 and folate in 0.2 mL of human serum, plasma, or whole blood hemolysate. This kit also contains cobalt-57. The B12/Folate-SNB Kit contains the chemical potassium cyanide (ECCN 1C350.d.12). For each of the two kit components, the concentrations are low: tracer - 0.03%; standards - 0.003%. The total amount of potassium cyanide per kit is only 0.004 grams. Potassium cyanide is required for the proper measurement of vitamin B12 in human serum or plasma. It is used in the assay to convert the "non-cyano" forms of vitamin B12 (hydroxocobalamin, adenosylcobalamin and methylcobalamin) to cyanocobalamin.

C9.

- 6) Lamark Laboratory, Seyed Jamaledin Asad Abadi St., 18 st., No.9 Tehran, Iran
- 7) Marjan Laboratory, Felestin St., Building 162 Tehran, Iran
- 8) Masoud Laboratory, Mirdamad St., No. 347 Tehran, Iran
- 9) Pajohesh Laboratory, Ekbatan St., Secound Faz., No. 26 Tehran, Iran
- 10) Pars Hospital, Keshavarz Bolv. Tehran, Iran
- 11) Resalat Hospital, Seyed Khandan Bridje., Abozar Ghafary Alley Tehran, Iran

C10. Continued:

..life is 0.03 TBq. The projected sales would be about _____ per year.

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