

EXPORT LICENSE

NRC FORM 250
(10-07)

UNITED STATES OF AMERICA

Nuclear Regulatory Commission
Washington, D.C. 20555

NRC LICENSE NO.: XMAT417/01

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DOCKET NO.: 11005954

LICENSE EXPIRES: November 01, 2017

Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to the licensee authorizing the export of the materials and/or production or utilization facilities listed below, subject to the terms and conditions herein.

LICENSEE

Sigma-Aldrich Co. LLC
3050 Spruce Street
St. Louis, MO 63103

Attn: Jared Fenton

ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)

See Page 2

(For distribution into medical, pharmaceutical,
chemical, and industrial markets for
non-nuclear end use)

INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)

NONE

OTHER U.S. PARTY(IES) TO EXPORT

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APPLICANT'S REFERENCE NO.: Appl. dated 6/15/2012 and
8/9/2012

ULTIMATE DESTINATION: China

QUANTITY

DESCRIPTION OF MATERIALS OR FACILITIES

The Licensee is authorized to export a cumulative total of 3,000.0 kilograms of deuterium in the form of deuterated compounds, deuterium oxide (heavy water), and deuterium gas.

XMAT417/01 continued on Pages 2 and 3.

Neither this license nor any right under this license shall be assigned or otherwise transferred in violation of the provisions of the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974.

This license is subject to the right of recapture or control by Section 108 of the Atomic Energy Act of 1954, as amended, and to all of the other provisions of said Acts, now or hereafter in effect and to all valid rules and regulations of the Nuclear Regulatory Commission.

THIS LICENSE IS INVALID UNLESS SIGNED BELOW
BY AUTHORIZED NRC REPRESENTATIVE

SIGNATURE:



NAME AND TITLE:

Stephen Dembek, Acting Deputy Director
Office of International Programs

DATE OF ISSUANCE:

September 5, 2012

EXPORT LICENSE

ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES): (Cont'd)

1. Sigma-Aldrich (Shanghai)
Zhangjiang High Tech East Park
No. 509 Ren Qing Rd, Bldg 10, Pudong
Shanghai 201201
China
2. Sigma-Aldrich (Shanghai) Trade Co Ltd
XinRi Logistics Warehouse
LiQiao Town, Shun Yi District
Hou Qiao Village (East 1500M)
Shun Yi District
Beijing 101304
China
3. Shanghai Tomoe Trading Co Ltd
No 1088 Jiaqian Road Jiading District
Shanghai 201802
China
4. Wuxi Apptec (Shanghai) Co Ltd
288 Fute Zhong Road
Waigaoqiao Bonded Zone
Shanghai 200131,
China
5. Wuxi Apptec (Shanghai) Co Ltd
Air Cargo Services (AAS)
No 555 Hai Tian 1 Rd
Pu-Dong International Airport
Shanghai 201202
China
6. Wuxi Apptec (Tianjin) Co Ltd
No 111 Huanghai Rd 4th Ave
Teda
Tianjin 300457
China
7. Shanghai Syntheall Pharmaceutical Co
No 9, Yuegong Road
Jinshan District (W)
Shanghai Chemical Industry Park
Shanghai 201507
China
8. Taiyo Nippon Sanso Trading (Shanghai)
428 South Yanggao Rd, Pudong
Shanghai 200127
China

(For distribution into medical, pharmaceutical, chemical, and industrial markets for non-nuclear end use)

OTHER U.S. PARTY(IES) TO EXPORT: (Cont'd)

1. **Aldrich Chemical Co. LLC**
6000 N. Teutonia Avenue
Milwaukee, WI 53209
2. **Aldrich Chemical Co. LLC**
3858 Benner Road
Miamisburg, OH 45342
3. **Aldrich Chemical Co. LLC**
6950 Ambassador Drive
Allentown, PA 18106

(Suppliers)

DESCRIPTION OF MATERIALS OR FACILITIES: (Cont'd)

The license is amended to: 1) revise Licensee name and address; 2) extend the expiration date from November 1, 2014 to November 1, 2017; 3) revise the address of one 'Ultimate Foreign Consignee'; 4) add seven new 'Ultimate Foreign Consignees'; and 5) add three 'Other U.S. Party(ies) to Export.'

All other conditions remain the same.

[illegible]