

**EXPORT LICENSE**

NRC FORM 250  
(10-07)

**UNITED STATES OF AMERICA**  
Nuclear Regulatory Commission  
Washington, D.C. 20555

NRC LICENSE NO.: XMAT417

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DOCKET NO.: 11005954

LICENSE EXPIRES: November 01, 2014

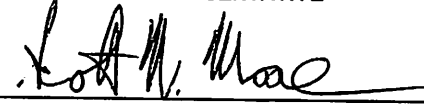
Pursuant to the Atomic Energy Act of 1954, as amended, and the Energy Reorganization Act of 1974 and the regulations of the Nuclear Regulatory Commission issued pursuant thereto, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued to the licensee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

<p align="center">LICENSEE</p> <p><b>Sigma-Aldrich Corporation and Subsidiaries</b> 6000 North Teutonia Avenue Milwaukee, WI 53209</p> <p>Attn: Jared Fenton</p>	<p align="center">ULTIMATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p><b>Sigma-Aldrich (Shanghai) Trading Co, Ltd.</b> 41F, K. Wah Centre 1010 Huai Hai Zhong Road Shanghai, China 200031</p> <p>(For distribution into medical, pharmaceutical, chemical, and industrial markets for non-nuclear end use)</p>
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<p align="center">INTERMEDIATE CONSIGNEE(S) IN FOREIGN COUNTRY(IES)</p> <p align="center">NONE</p>	<p align="center">OTHER U.S. PARTY(IES) TO EXPORT</p> <p align="center">NONE</p>
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<p>APPLICANT'S REFERENCE NO.: Appl. dated 6/28/2011</p>	<p>ULTIMATE DESTINATION: China</p>
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QUANTITY	DESCRIPTION OF MATERIALS OR FACILITIES
3,000.0 Kilograms	Deuterium in the form of deuterated compounds, deuterium oxide (heavy water), and deuterium gas.
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<p>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.</p> <p>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.</p>	<p align="center">THIS LICENSE IS INVALID UNLESS SIGNED BELOW BY AUTHORIZED NRC REPRESENTATIVE</p> <p>SIGNATURE: </p> <p>NAME AND TITLE: Scott W. Moore, Deputy Director Office of International Programs</p> <p>DATE OF ISSUANCE: January 18, 2012</p>
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