



ISO 9001 CERTIFIED  
ISO 13485 CERTIFIED

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CERTIFICATE OF QUALITY

**Product:** METHOTREXATE  
**Grade:** USP GRADE  
**Code:** 0954  
**Appearance:** Yellowish to orange-brown powder  
**Mol. Formula:** C<sub>20</sub>H<sub>22</sub>N<sub>8</sub>O<sub>5</sub>  
**Mol. Weight:** 454.44

Description:

<u>Assay:</u>	<u>Min</u>	<u>Max</u>	<u>Units</u>	<u>Disposition</u>
Chromatographic Purity	PASS		P/F	PASS
Identification	PASS		P/F	PASS
Moisture (by Karl Fischer)		12.0	%	PASS
Purity	98.0	102.0	%	PASS
Residue after Ignition		0.1	%	PASS
Specific Rotation	+19	+24	degrees	PASS

Storage: Store frozen. Keep dry. Warm to room temperature before opening.

0954USP

This signature indicates that the above material has met all quality specifications and has been reviewed by a quality representative.

Signature:

Title:

QC MANAGER

Date:

6/13/2012