ROCHEM INTERNATIONAL, INC.

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PRODUCT SPECIFICATION

METHOTREXATE

USP/EP

Version No.: 400075-000

Version No.: 4000/3-000	And a various response
Product Name:	Methotrexate USP/EP
CAS No.:	59-05-2
ITEMS	SPECIFICATIONS
Appearance (USP):	Yellow or orange-brown crystalline powder
Appearance (EP):	Yellow or orange, crystalline powder
Identification (IR):	The IR spectrum of sample exhibits maxima only at the same wavelength as that a similar preparation of methotrexate CRS.
Identification (UV):	Positive
Solubility:	Freely soluble in dilute solutions of alkali hydroxides and carbonates; slightly soluble in 6 N hydrochloric acid; practically insoluble in water, in alcohol, in chloroform, and in ether.
Related Substances (USP):	
Impurity B:	NMT 0.3%
Impurity C:	NMT 0.5%
Impurity E:	NMT 0.3%
MTX-1-monomethylester:	NMT 0.2%
MTX-5-monomethylester:	NMT 0.2%
Any Unknown Impurity:	NMT 0.10%
Total Unknown Impurities:	NMT 0.5%
Related Substances (EP):	
Impurity B:	NMT 0.3%
Impurity C:	NMT 0.5%
Impurity E:	NMT 0.3%
Impurity H:	NMT 0.2%
Impurity I:	NMT 0.2%
Unspecified Impurities:	NMT 0.05%
Sum of Impurities other than B, C & E:	NMT 0.5%
Enantiomeric Purity:	NMT 3.0%
Heavy Metals:	NMT 20 ppm
Water:	NMT 12.0%
Residue on Ignition/Sulphated Ash:	NMT 0.1%
Residual Solvents:	
Ethyl ether:	NMT 500ppm
Acetone:	NMT 1000ppm
Ethanol:	NMT 2000ppm
Assay (USP): (on the Anhydrous Basis)	98.0% ~ 102.0%
Assay (EP): (on the Anhydrous Basis)	97.0% ~ 102.0%
Total Microbial Count:	NMT 100 CFU/g
Total Molds & Yeasts:	NMT 10 CFU/g

THE INFORMATION PRESENTED HEREIN IS BELIEVED TO BE ACCURATE AND RELIABLE, BUT NO WARRANTY, EXPRESSED OR IMPLIED IS MADE REGARDING THE INFORMATION OF THE PERFORMANCE OF ANY PRODUCT. FURTHER NOTHING CONTAINED HEREIN SHALL BE TAKEN AS ANY INDUCEMENT OR RECOMMENDATION TO USE. MANUFACTURE OR SELL THAT WAY INFRINGE ANY PATENTS OR ANY OTHER PROPRIETARY RIGHTS NOW OR HEREAFTER IN EXISTENCE.

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Bacterial Endotoxin:	NMT 0.08 EU/mg
Retest Date:	3 Years

Rev. 07