Certificate of Analysis

MedKoo Cat#:	Product Name:	Lot#:
100610	Methotrexate	YYP30829

Chemical name
(S)-2-(4-(((2,4-diaminopteridin-6-yl)methyl)(methyl)amino)benzamido)pentanedioic acid.

Synonyms			
alpha-methopterin; amethopterin; Methotrexatum; methylaminopterin; Metotrexato;			
Abitrexate; Folex; Methotrexate LPF; Mexate; Mexate-AQ; Lantarel; Ledertrexate; Lumexon;			
Maxtrex; Medsatrexate; Metex; Methoblastin; Metrotex; Novatrex; Texate; Tremetex; MTX.			
CL-14377; WR-19039; CL 14377; WR 19039; CL14377; WR19039.			
Chemical structure	CAS# and Theoretical analysis		
O. OH	MedKoo Cat#: 100610		
O O O	Name: Methotrexate		
NH ₂ OH	CAS#: 59-05-2		
	Lot#: YYP30829		

Chemical Formula: C₂₀H₂₂N₈O₅

Exact Mass: 454.17132 Molecular Weight: 454.44

Analysis item	Specifications / Results	
Appearance	Yellow to orange crystalline powder.	
Structure	¹ H-NMR analysis matches the structure. MS analysis gives the correct molecule weight. Both NMR and MS data are consistent with those reported in the literature.	
Purity (HPLC)	>98.0%	
Solubility	Soluble in DMSO, not in water or aqueous buffer.	
Conclusion	This product conforms with MedKoo's quality standards	
Shipping condition	Shipped under ambient temperature as non-hazardous chemical.	
	This product is stable for a few weeks during ordinary shipping	
	and time spent in customs.	
Storage condition	Short term storage (weeks): $0-4$ °C under dry condition	
	Long term storage (months): -20 °C under dry condition	
Shelf life	At least 5 years if properly stored.	

CAUTION: NOT FULLY TESTED. FOR RESEARCH ONLY, NOT FOR HUMAN USE