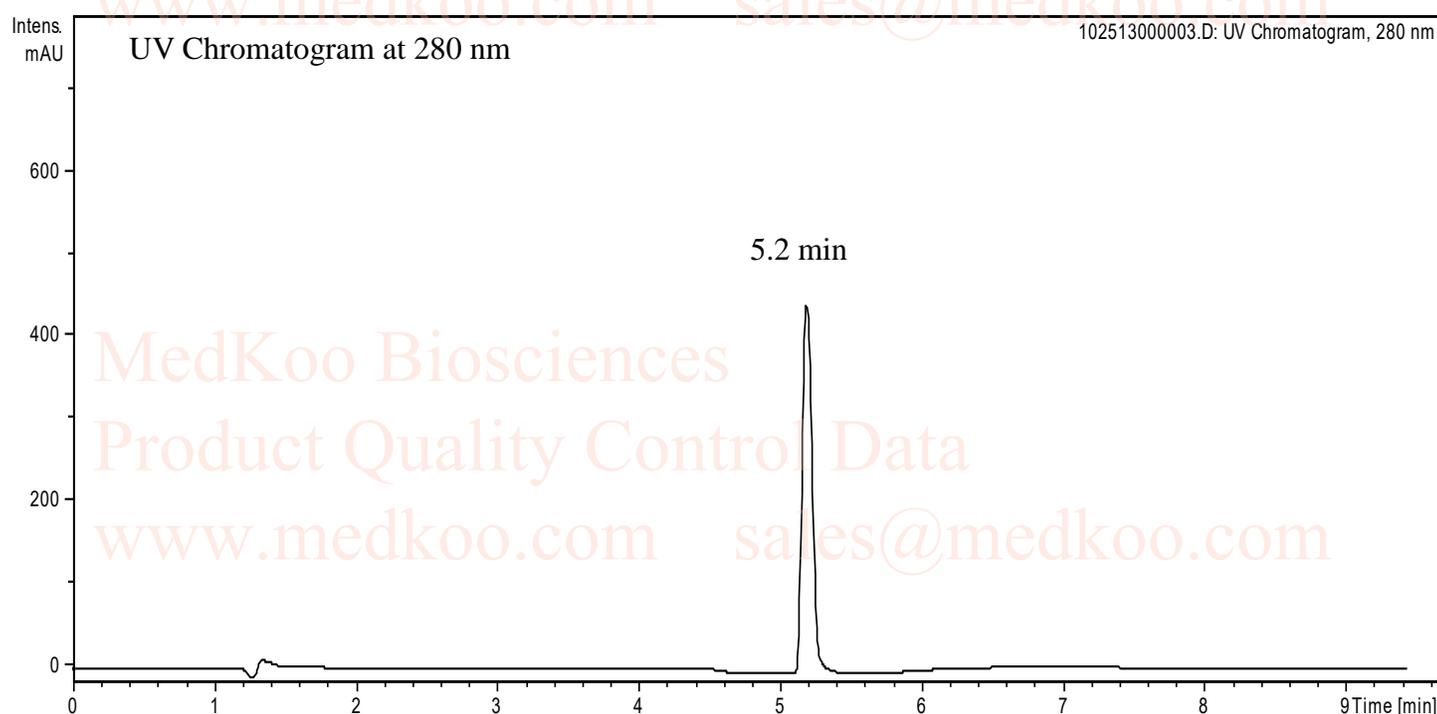


Methotrexate LC/MS Analysis

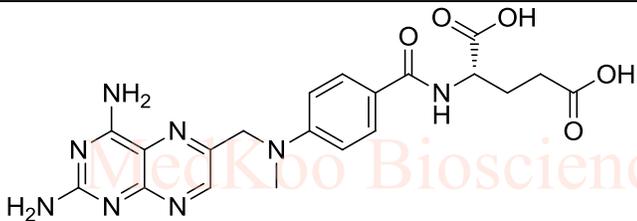
1. Instrument: Agilent LC/MS system (1100 HPLC and MSD Trap XCT Plus mass spectrometer with UV-Vis detector).
2. HPLC condition:
 - (1) Mobile phase A: H₂O with 0.1% formic acid; Mobile phase B: ACN with 0.1% formic acid.
 - (2) Flow rate: 0.25 ml/min.
 - (3) Column: Phenomenex Gemini 3u C6-phenyl 110 A (100 × 2 mm).
 - (4) Gradient: 0-1 min, 50% A; 5-8.5 min, 0% A.
3. MS condition: Nebulizer, dry gas and dry temperature are 30 psi, 8L/min, and 350°C, respectively.

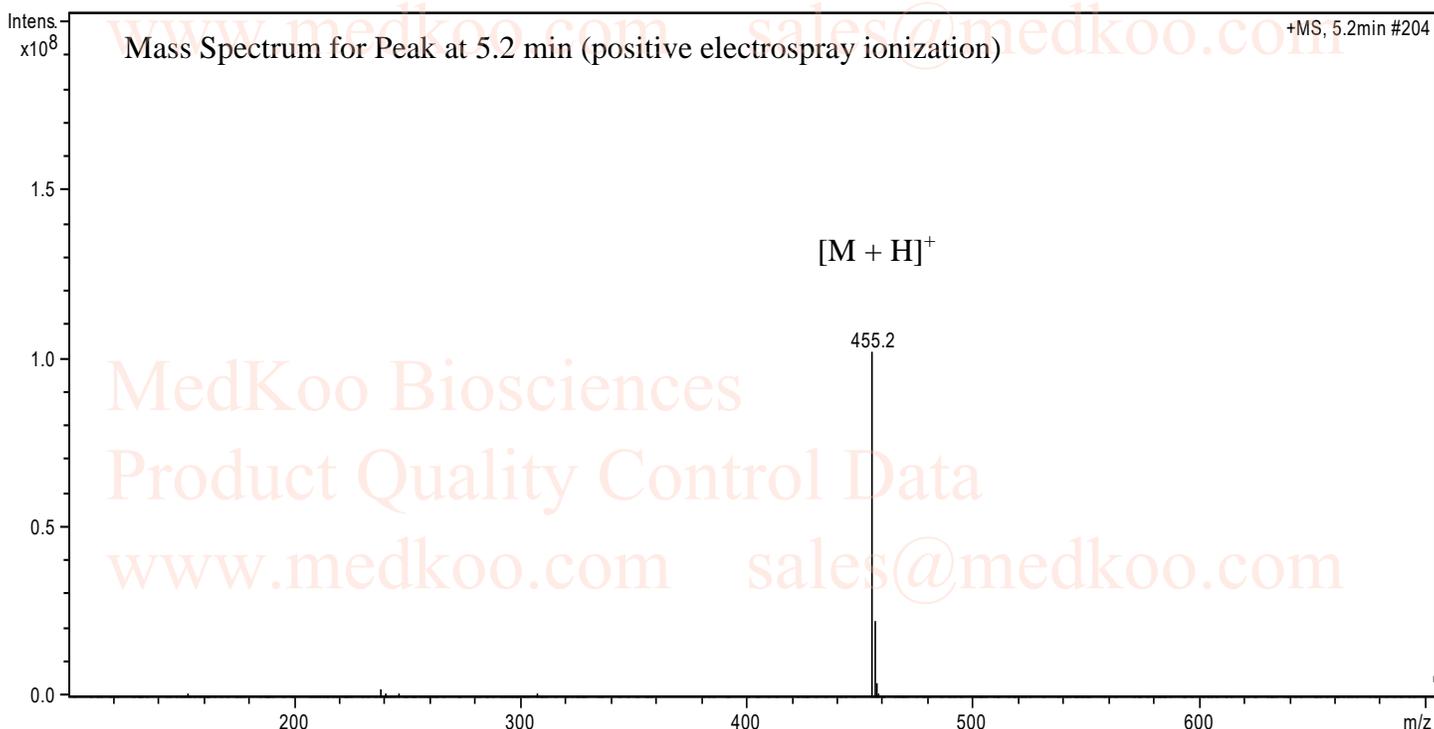
Sample preparation: Methotrexate (dissolved in 300 µl DMSO + 100 µl MeOH):



Chemical structure	CAS# and Theoretical analysis
 <chem>CN1C=NC2=C(N1)N=CN=C2CN(C)Cc3ccc(cc3)C(=O)N[C@@H](C)CC(=O)O</chem>	MedKoo Cat#: 100610 Name: Methotrexate CAS#: 59-05-2 Lot#: YYP30829 Chemical Formula: C ₂₀ H ₂₂ N ₈ O ₅ Exact Mass: 454.17132 Molecular Weight: 454.44

Methotrexate LC/MS Analysis

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