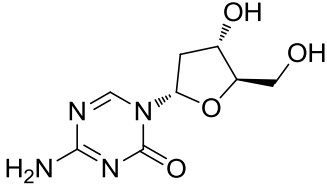
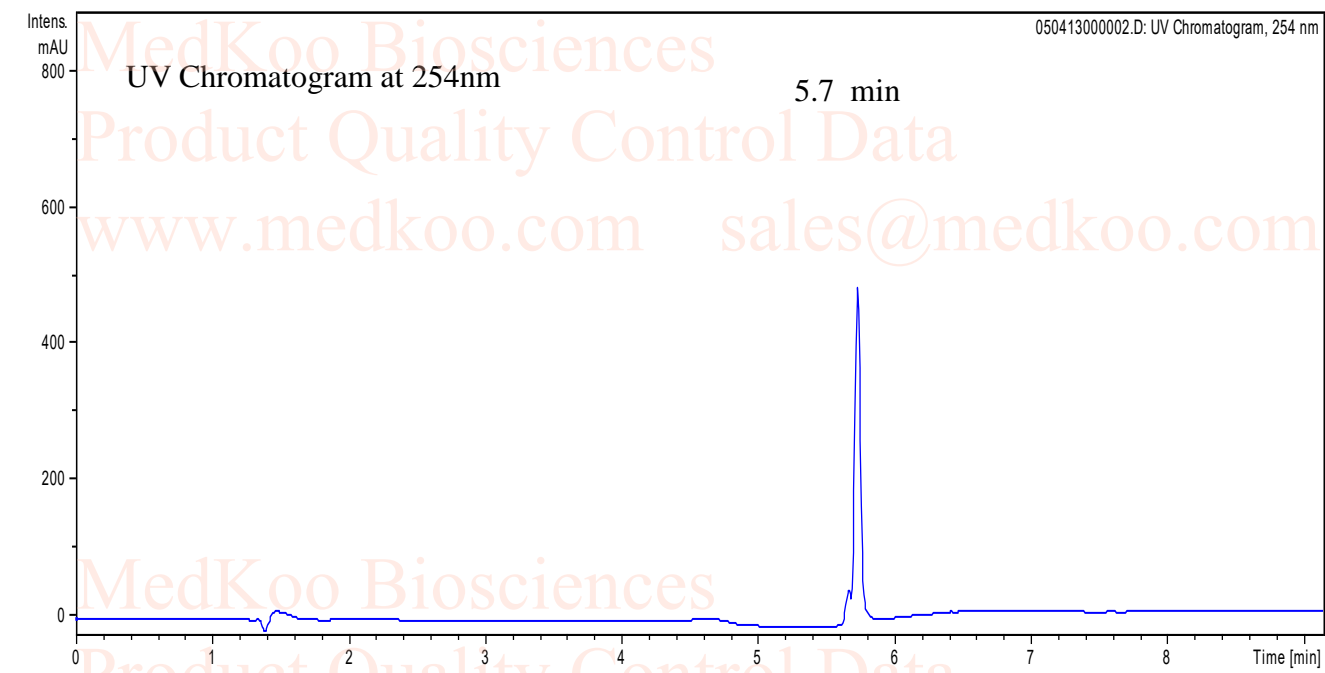


Decitabine LC/MS Analysis

Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100250 Name: Decitabine CAS#: 2353-33-5 Lot#YYP30915 Chemical Formula: C ₈ H ₁₂ N ₄ O ₄ Exact Mass: 228.08585 Molecular Weight: 228.20

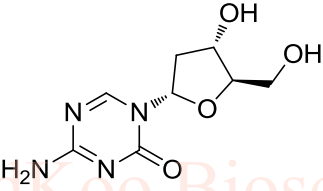
1. Instrument: Agilent LC/MS system (1100 HPLC and MSD Trap XCT Plus mass spectrometer with UV-Vis detector).
2. HPLC condition:
 - (1) Mobile phase A: H₂O with 0.1% formic acid; Mobile phase B: ACN with 0.1% formic acid.
 - (2) Flow rate: 0.25 ml/min.
 - (3) Column: Phenomenex Gemini 3u C₆-phenyl 110 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.

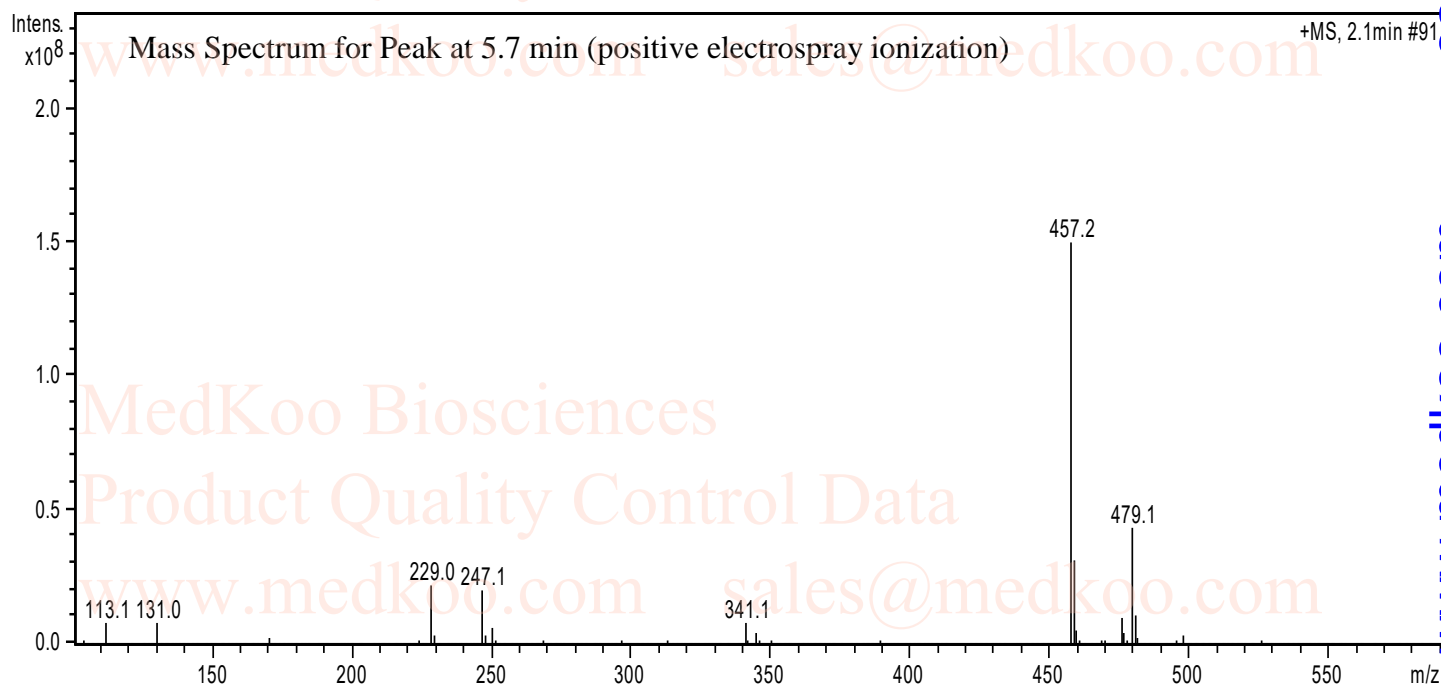
Decitabine (dissolved in 400 µl H₂O):



(Continued on the next pages)

Decitabine LC/MS Analysis

Chemical structure	CAS# and Theoretical analysis
	MedKoo Cat#: 100250 Name: Decitabine CAS#: 2353-33-5 Lot#: YYP30915 Chemical Formula: C ₈ H ₁₂ N ₄ O ₄ Exact Mass: 228.08585 Molecular Weight: 228.20



Note: m/z 229 is $[M + H]^+$; m/z 247 is $[M + NH_4]^+$; m/z 457 is the dimer; m/z 479 is $[dimer + Na]^+$. Adducts with Na or NH_3 is very common in positive electrospray mass spectra no matter how pure the samples are.

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