



Certificate of Analysis

Product Name:	Coluracetam	Batch Number:	Varies
CAS No.	135463-81-9	Manufacture Date:	Varies
Molecular Formula:	C ₁₉ H ₂₃ N ₃ O ₃	Expiry Date:	Varies

IDENTIFICATION		SPECIFICATION	RESULT
Assay (HPLC)		≥ 99%	99.60 - 99.91%
Physical	Appearance	White / White crystalline powder	Complies
	Identification	HNMR and HPLC retention time	Complies
	¹ H NMR	Complies to structure	Complies
	Water content	≤ 0.50%	0.19%
	Melting point	223°C - 225°C	Complies
	Residue on Ignition	≤ 0.2%	0.05 - 0.13%
	Loss on drying	≤ 1%	0.52 - 0.55%
Chemical	Heavy metals	≤ 10 ppm	Complies
	Methanol	≤ 3000 ppm	70 ppm
	Toluene	≤ 890 ppm	28 ppm

Else	Storage condition	Sealed, kept in shady and dry place
	Shelf life	Two years

