Certificate of Analysis

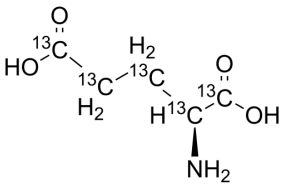
L-Glutamic acid-$^{13}C_5$

Cat. No.:	HY-14608S5
CAS No.:	55443-55-5
Batch No.:	256208
Chemical Name:	L-Glutamic-1,2,3,4,5-13C5 acid

PHYSICAL AND CHEMICAL PROPERTIES

Molecular Formula:	$^{13}C_5H_9NO_4$		
Molecular Weight:	**152.09**		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

Chemical Structure:



ANALYTICAL DATA

Appearance:	White to off-white (Solid)
^{1}H NMR Spectrum:	Consistent with structure
MS:	Consistent with structure
Purity (NMR):	**≥98.0%**
Isotopic Enrichment:	98.5%
Conclusion:	The product has been tested and complies with the given specifications.

Caution: Product has not been fully validated for medical applications. For research use only.

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