



Nanjing JCNANO Technology Co., LTD
CERTIFICATE OF ANALYSIS

CAS NO.	99685-96-8	Product Name	Fullerene - C60
Formula:	C60	Formula Weight:	720.64 g/mol
Manufacture Date	2024.03.11	Date of Analysis	2024.04.13
Quantity	500g	Standard	Enterprise Standard
Batch Number	SC220311		

Item	Specification	Result
Appearance (Color)	Dark brown or Black powder	Black powder
Appearance (Form)	Crystals	Conform
Identification	Elemental analysis Appraisal: Positive	Conform to Composition
	Mass spectrum Appraisal: Positive	Conform to Composition
	Infrared spectrum Appraisal: Positive	Conform to Structure
Purity (HPLC)	C60 66-68%	66.40%
	C70 22-26%	25.47%
Impurity content	PAH/C50/C60 Oxide/High Fullerenes	8.13%
Residual solvent	≤100ppm	No data available
Conclusion	Analyzed, this product complies with Enterprise Standard	

COMMENTS AND INSTRUCTIONS

The relevant data shown in this certificate is credible, and the final interpretation right of the product belongs to the JICANG TECH. For further inquiries, please contact Technical Service.

Purity of Fullerenes determined by HPLC

Conditions for analysis:

Column: Buckprep (4.6*250 mm)

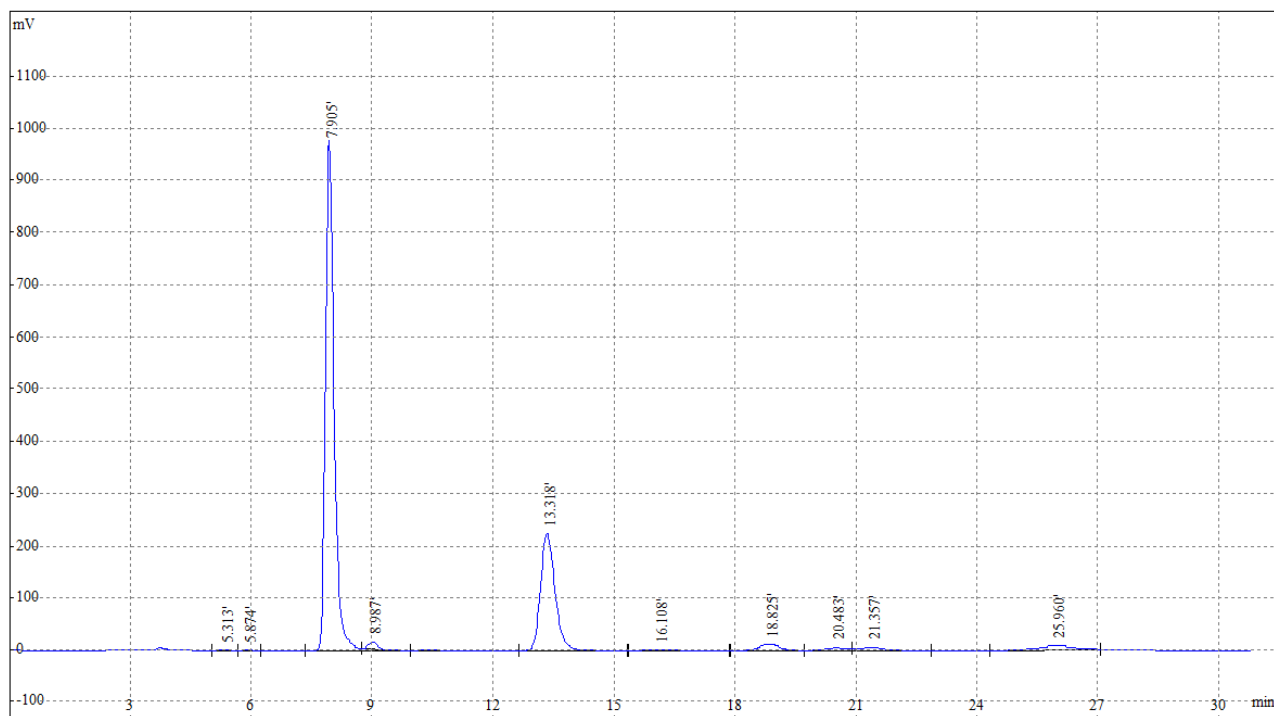
Sample: Fullerenes dissolved in toluene

Mobile phase: 100% toluene

Flow rate: 1.0 mL/min

Detection: 310 nm

Temperature: 24°C



Chromatography of Fullerenes

Purity of Fullerenes

No.	Retention time	Name	Purity (/%)	Area
1	5.313		0.03731	8253
2	5.874		0.03639	8051
3	7.905	C60	66.4	14689576
4	8.987		1.08	238827
5	13.318	C70	25.47	5634591
6	16.108		0.3733	82589
7	18.825		2.096	463686
8	20.483		1.025	226785
9	21.357		1.336	295476
10	25.960		2.143	473977
Total			100	22121811

Note: The purity of C60 is 66.4%, C70 is 25.47% determined by the ratio of HPLC.

Quality Inspector: Aaron Yama King

Verifier: Abel