



Certificate of Analysis

Identification Parameters	
Product Name:	GHK-Cu
Vendor:	Peptides Plus
Lot Number:	11122
CAS Number:	89030-95-5
ChemSpider:	335491
PubChem CID:	133697840
UNII:	6BJQ43T1I9
Chemical Formula:	$C_{28}H_{48}CuN_{12}O_8$
Amino Acid Sequence:	Gly-His-Lys-Cu
Molar Mass:	$402.92 \text{ g} \cdot \text{mol}^{-1}$

Physical and Chemical Purity			
Parameter	Specification	Result	Method
Appearance	Blue Crystalline Powder	Conforms	Visual
Chemical Purity	>99%	99.961%	HPLC
Arsenic	<1 µg/g	<0.001 µg/g	USP<232>
Cadmium	<1 µg/g	<0.001 µg/g	USP<232>
Lead	<1 µg/g	<0.001 µg/g	USP<232>
Mercury	<1 µg/g	<0.001 µg/g	USP<232>

Limits are derived from USP<233>.

Microbiological Purity			
Parameter	Specification	Result	Method
Total Aerobic Plate Count	<100 CFU/g	<10 CFU/g	USP<61>
Yeast & Mould	<10 CFU/g	<10 CFU/g	USP<61>
<i>E. coli</i>	Absent	Absent	USP<62>
<i>Salmonella spp.</i>	Absent	Absent	USP<62>
<i>Pseudomonas aeruginosa</i>	Absent	Absent	USP<62>
<i>Staphylococcus aureus</i>	Absent	Absent	USP<62>

Limits are derived from USP<1111>, Table 1.

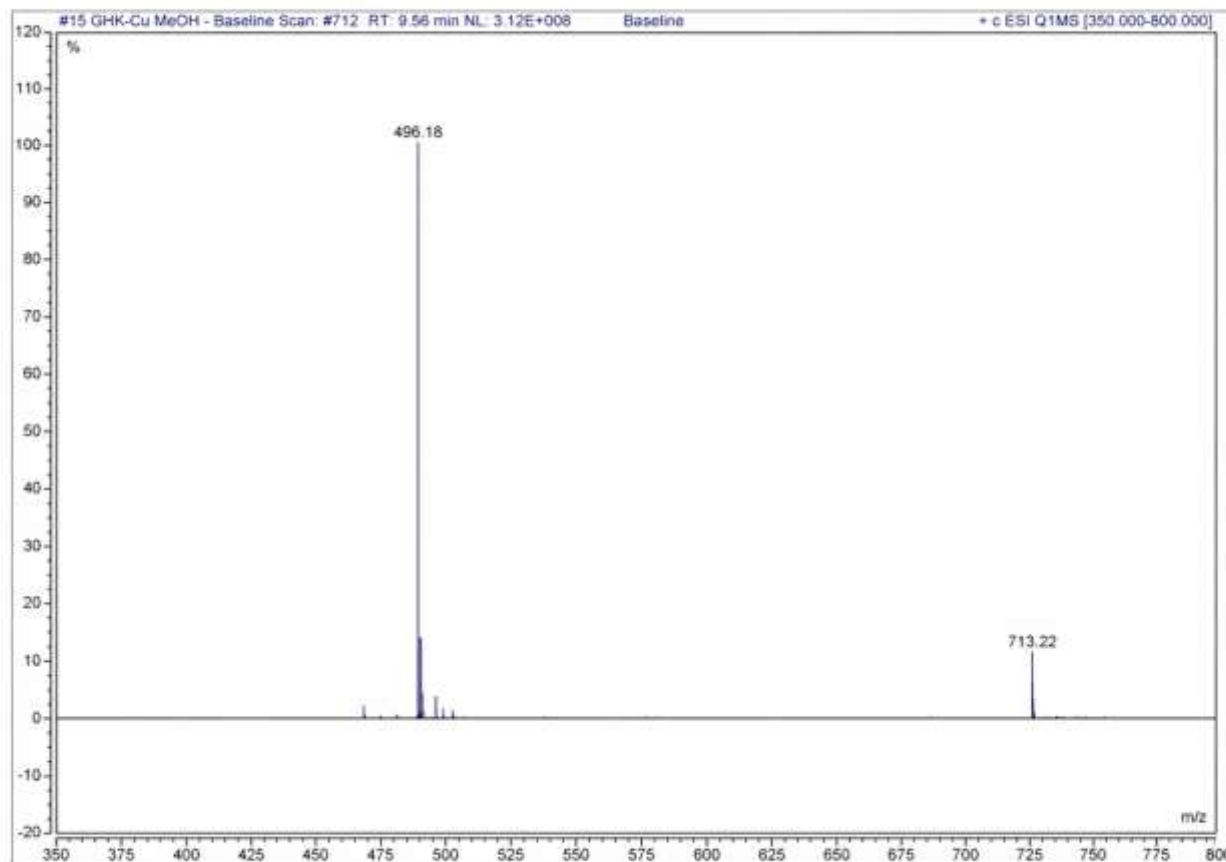
Notes:

RL – Reporting Limit, <RL Indicates no detection above RL.

Results highlighted in red are outside of acceptance parameter.

Sequence: GHK-Cu
Injection #15: GHK-Cu MeOH

Mass Spectral View



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Results highlighted in red are outside of acceptance parameter.