



Certificate of Analysis

Identification Parameters	
Product Name:	Glutathione
Vendor:	Peptides Plus
Lot Number:	11122
CAS Number:	70-18-8
PubChem CID:	124886
ChemSpider	111188
UNII:	GAN16C9B8O
Chemical Formula:	$C_{10}H_{17}N_3O_6S$
Amino Acid Sequence:	γ -Glu-Cys-Gly
Molar Mass:	$307.32 \text{ g} \cdot \text{mol}^{-1}$

Physical and Chemical Purity			
Parameter	Specification	Result	Method
Appearance	White to off-white powder	Conforms	Visual
Chemical Purity	>99%	99.0057%	HPLC
Arsenic	<1 $\mu\text{g/g}$	<0.001 $\mu\text{g/g}$	USP<232>
Cadmium	<1 $\mu\text{g/g}$	<0.001 $\mu\text{g/g}$	USP<232>
Lead	<1 $\mu\text{g/g}$	<0.001 $\mu\text{g/g}$	USP<232>
Mercury	<1 $\mu\text{g/g}$	<0.001 $\mu\text{g/g}$	USP<232>

Limits are derived from USP<233>.

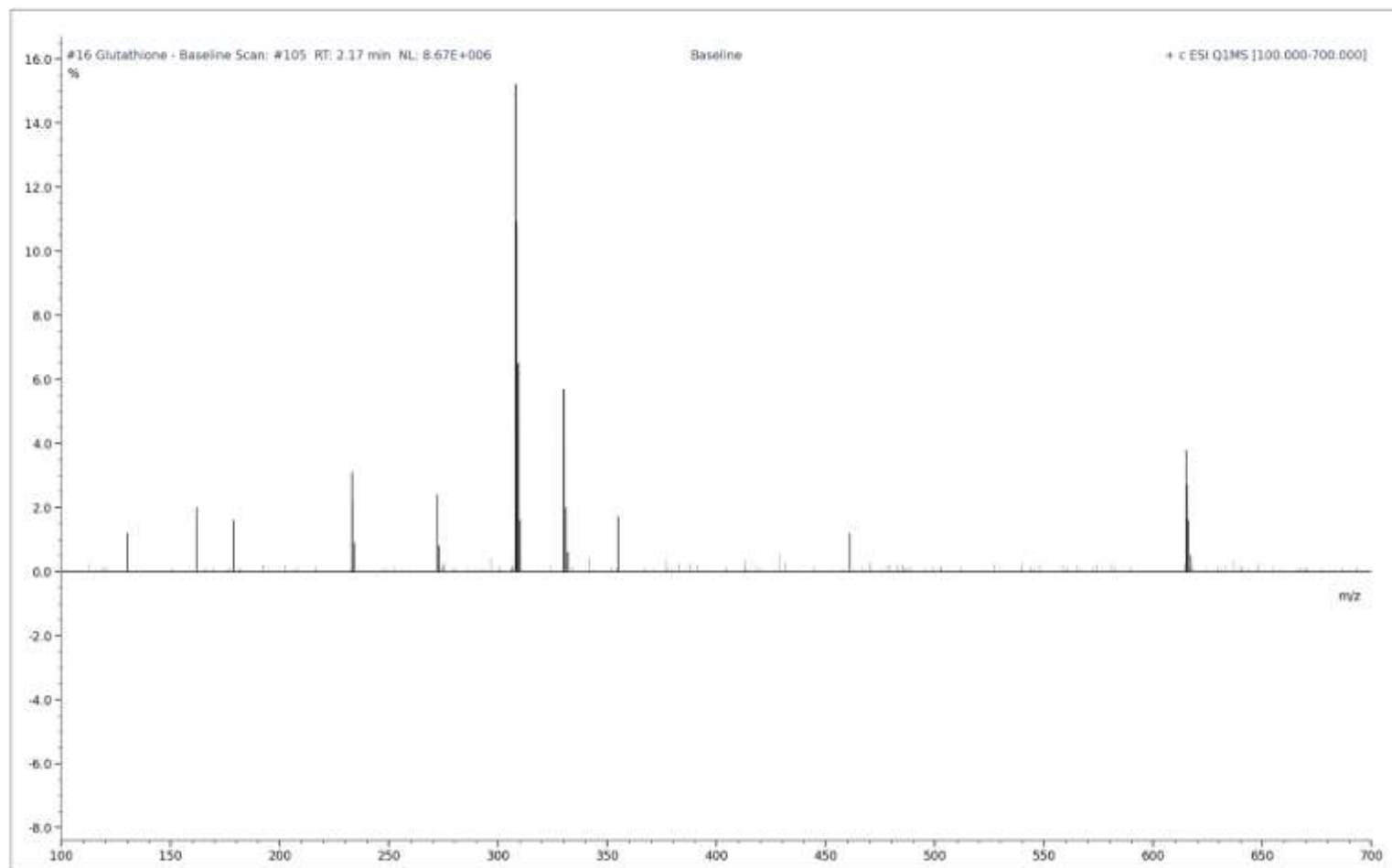
Microbiological Purity			
Parameter	Specification	Result	Method
Total Aerobic Plate Count	<100 CFU/g	<10 CFU/g	USP<61>
Yeast & Mould	<10 CFU/g	<10 CFU/g	USP<61>
<i>E. coli</i>	Absent	Absent	USP<62>
<i>Salmonella spp.</i>	Absent	Absent	USP<62>
<i>Pseudomonas aeruginosa</i>	Absent	Absent	USP<62>
<i>Staphylococcus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



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