Date: 16 November 2026
Classification: Client Confidential

SYG-CABC-PXYZ: QC Report

Human alpha Synuclein wild type

Batch Number	SYG-CABC-PXYZ
Concentration	2.6 mg/mL
Aliquots	135 x 1 mL
Total Volume	135 mL
Total Quantity	351 mg
Final Buffer	Dulbecco PBS pH7.4
Expected Molecular Mass	14,460.2 Da
Theoretical pI	4.67
Extinction Coefficient (Abs 0.1%)	0.41
Expression Summary	Soluble fraction in *E. coli*
Purification Summary	Standard Sygnature αSyn protocol

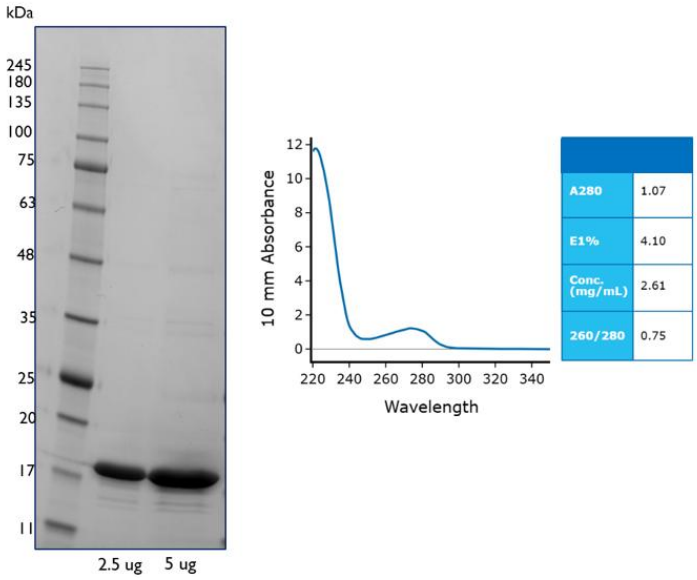
Protein Sequence

Uniprot P37840

MDVFMKGLSKAKEGVVAAAEKTKQGVAEAAGKTKEGVLYVGSKTKEGVVHGVATVAEKTKEQVTNVGGAVVTGVTAVAQK
TVEGAGSIAAATGFVKKDQLGKNEEGAPQEGILEDMPVDPDNEAYEMPSEEGYQDYEPEA

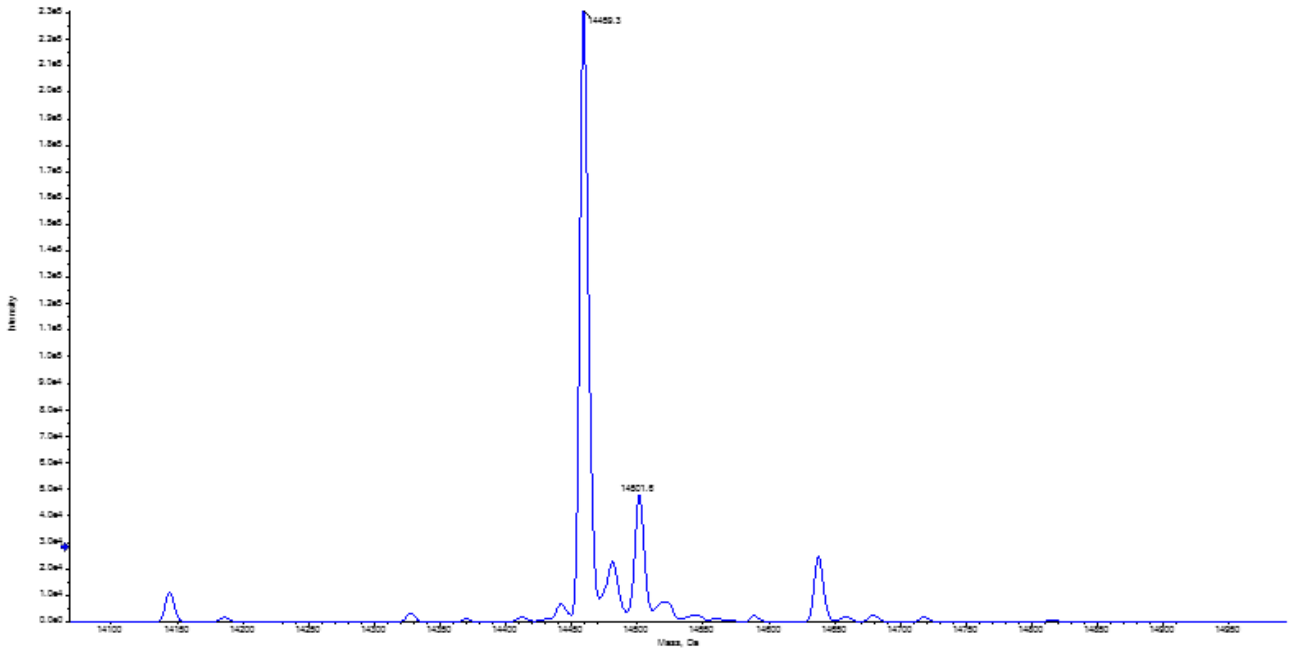
Concentration Determination & SDS-PAGE

Reducing SDS-PAGE analysis and concentration determination by A280 measurement.



Intact Mass Spectrometry

A sample was analysed on a Sciex ExionLC coupled to an X500B mass spectrometer. The resulting spectrum was deconvoluted using BioToolKit.



Expected mass: 14460.2 Da
Mass of observed peak: Main peak at 14459.3 Da, this is a match to the expected mass. Second peak at 14501.6 Da, this has a mass difference of 42 Da which could be acetylation of the lysine. The third peak at 14637.8 Da is +177.6 Da higher than the expected peak and +136.2 Da than the acetylated peak. This peak of an unknown identity is commonly seen in αSyn batches.