

Certificate of Analysis

Product name	COG449/OP449		
Molecular Formula	C ₄₀₄ H ₆₇₄ N ₁₄₂ O ₇₆ S ₄		
Sequence:	(Ac-RQIKIWFQNRRMKWKKCLRVRLASHLRKLRKRL-NH ₂)-BMOE-(Ac-RQIKIWFQNRRMKWKKCLRVRLASHLRKLRKRL-NH ₂)		
Counter Ion	Acetate		
Molecular Weight	9223		
Lot No.	042-44-25; Grade: Research Grade		
Quantity	5.0g		
Manufacturing Date	Feb.08, 2025		
Expiry Date	Feb.07, 2027		
Store at	-20°C for long-term storage		
TEST	METHOD	SPECIFICATIONS	RESULTS
Appearance	Visual Observation	White Powder	White Powder
Identity	Mass Spectrometry (MS)	M.W. (average) = 9225.5 M.W. (monoisotopic) = 9219.5 ± 1 amu	(M+5H) ⁵⁺ /5 = 1845.1 (M+6H) ⁶⁺ /6 = 1538.2 (M+7H) ⁷⁺ /7 = 1318.7 After deconvolution: M=9222.5
Purity Assay	RP-HPLC (Area Normalized)	≥95%	97.4%
Net Peptide Content (NPC)	Nitrogen Analysis	Report Results	81%
Counter Ion (HOAc)	Ion Chromatography	Report Results	12%
Water Content (H ₂ O)	Karl Fisher USP<921>	Report Results	4%
Total Mass Balance	Calculation NPC+HOAc+H ₂ O	90-105%	97%

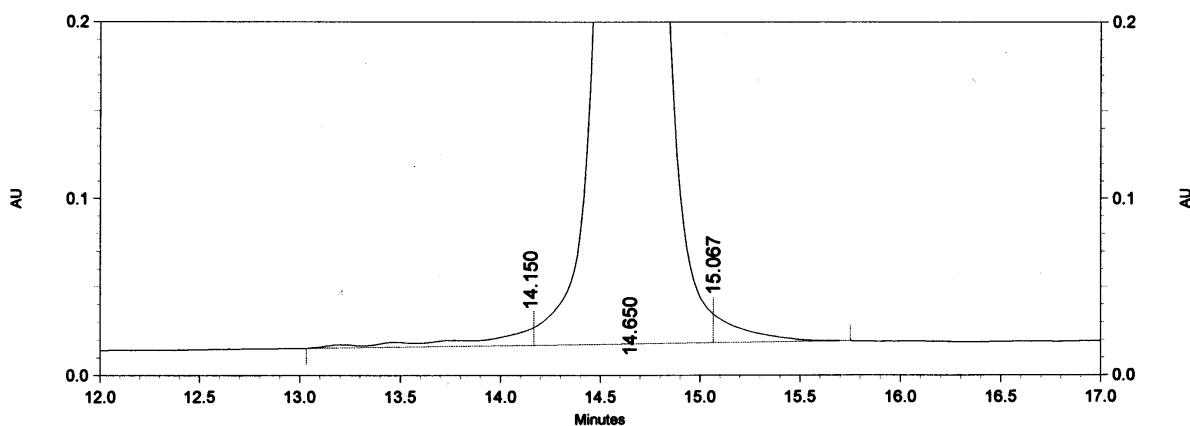
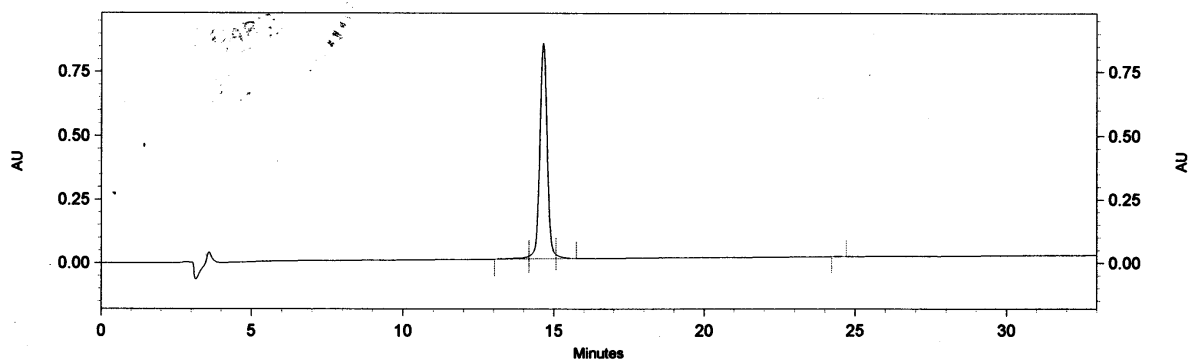
Q. C. Manager: Joseph Song

Inspector: Nancy Luke

2025-03-11

2025-03-11

Sample ID: ABF135 // 042-44-25 in CAN/H2O
 System: BECKMAN
 Column: YMC C18, 4.6x250mm
 Solvent: A=0.1% TFA/H2O, B=0.1TFA/CAN
 Flow: 1ml/min
 Detector: 215nm
 Method: C:\32Karat\Projects\Default\Method\25-55%Bin30'.met
 Filename: C:\32Karat\Projects\Default\Data\ABF135.FA1.dat
 Acquisition Date: 3/9/2025. 9:41:49 AM



Det 166
Results

Pk #	Retention Time	Area	Area Percent	Height
1	14.15	196150	1.33	9087
2	14.65	14375596	97.38	846849
3	15.07	166281	1.13	16019
4	24.43	24901	0.17	1838
Totals		14762928	100.00	873793

