AV ANALYTICS
Analytical Precision - Operational Excellence
INDEPENDENT ANALYTICAL LABORATORY

CERTIFICATE OF ANALYSIS

Analytical results | Controlled laboratory report

CERTIFICATE NO.	LAB SAMPLE ID	ISSUE DATE	REPORT STATUS
COA-2026-26614	*20260900844*	*27-OCT-2026*	*FINAL*

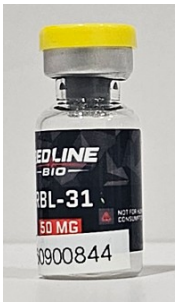
01 CLIENT & PRODUCT INFORMATION

Client organization	*Redline Bio Labs*	**Client contact**	*redlinebiolabs@yahoo.com*
Product name	*SS-31*	**Client lot / batch**	*SS50-002*
Label claim	*50 mg*	**Lab sample ID**	*20260900844*
Sample matrix	*Lyophilized Powder*	**Quantity received**	*1*
Container / closure	*Clear vial/yellow cap*	**Condition on receipt**	*Intact*
Date received	*22 Oct 2026*	**Testing period**	*23-25 OCT 2026*
Storage condition	*Ambient*	**Route / intended use**	*RUO*

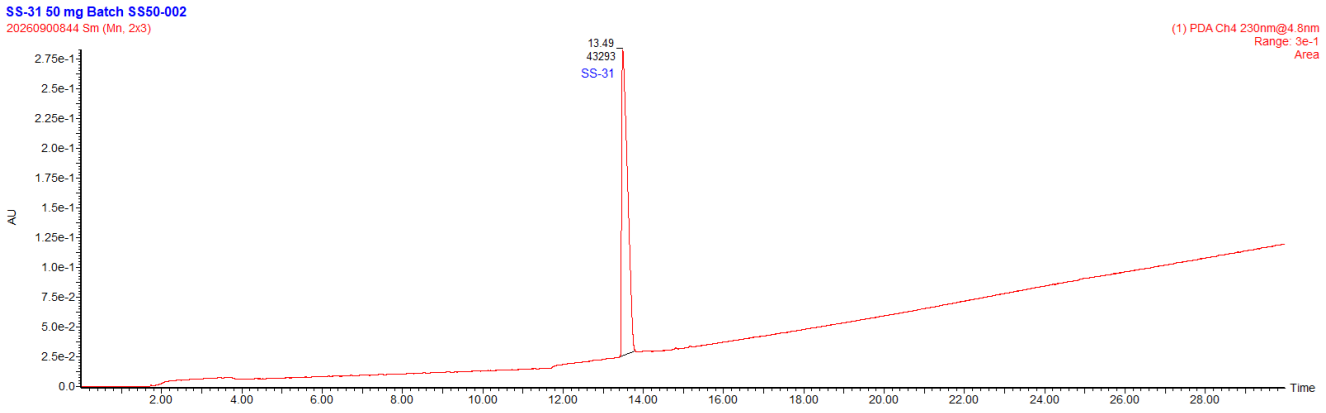
02 ANALYTICAL TEST RESULTS | Purity, identification and net content

Analysis	Method / SOP	Instrumentation	Result	Units	Acceptance criterion	Status
Purity	*UPLC-UV*	*Acquity UPLC/PDA*	*99.78*	*% area*	*>99%*	*PASS*
Identification	*UPLC-MS*	*Waters Quattro Series*	*Conforms*	—	*Ionization profile match w/standard*	*PASS*
Net content	*Quantitative UPLC*	*Acquity UPLC/PDA*	*51.62*	*mg/vial*	*±10%*	*PASS*

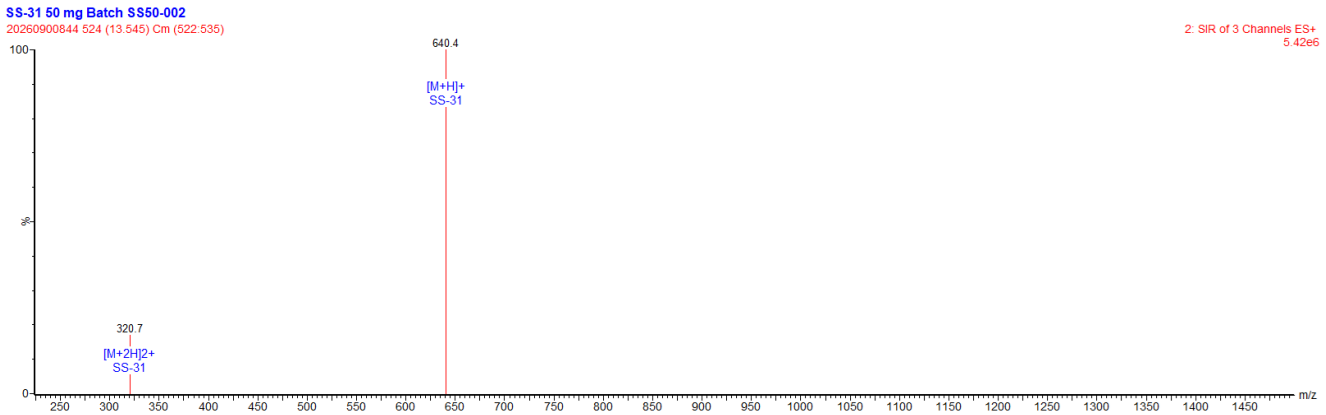
03 SUPPORTING ANALYTICAL EVIDENCE | UV/MASS Chromatograms/Spectra



PRODUCT AS RECEIVED



UV CHROMATOGRAM



MASS SPECTRUM / SPECTRA

04 HEAVY METALS SCREENING | ICP-MS | Elemental impurity results

Method	*9 Metal Panel*	**Instrument / asset ID**	*Perkin Elmer SCIEX ELAN DRC II*
Sample preparation	*Digestion*	**Calibration model**	*Regression*
Run / sequence ID	*ICP-20260900844*	**Analysis date**	*23-25 OCT 2026*

ELEMENTAL IMPURITY RESULTS

Analyte	Result (µg/L)	LOQ (µg/L)
Cadmium (Cd)	*Non-detect*	0.10
Lead (Pb)	*Non-detect*	0.20
Arsenic (As)	*Non-detect*	0.50
Mercury (Hg)	*Non-detect*	0.20
Cobalt (Co)	*Non-detect*	0.20
Vanadium (V)	*Non-detect*	0.20
Nickel (Ni)	*Non-detect*	0.50
Lithium (Li)	*Non-detect*	1.0
Antimony (Sb)	*Non-detect*	0.20

05 ENDOTOXIN ANALYSIS | Recombinant Factor C (rFC) fluorescence assay

Method	*Recombinant Factor-c*	**Instrument / asset ID**	*Molecular Devices Gemini XPS*
Assay / reagent	*bioMerieux EndoZyme II*	**Standard**	*Kit-integrated*
Sample preparation	*Reconstitution in Endotoxin Free Water*	**Run / plate ID**	*EZII-20260900844*
Product limit	*0.5 EU/mL (AV Analytics applies 2x USP limit for H2O, no USP endotoxin limit applies to RUO products)*	**Maximum valid dilution**	*1:100*

Parameter	Result	Acceptance criterion	Units	Status
Endotoxin	*0.21*	*<0.5*	*EU/mL*	*PASS*
Positive product control recovery	*93*	*50-200*	*%*	*PASS*
Negative control	*Non-Detect*	*<0.005*	*EU/mL*	*PASS*
Standard curve / assay validity	*0.98*	*Correlation factor >0.94*	*R^2*	*PASS*

06 AUTHORIZATION | Review, decision rule and release

Analyst	*Jason Snitker*	**Technical reviewer**	*Vanessa Montoya, PhD*
Authorized signatory	*Vanessa Montoya, PhD*	**Decision rule**	*Document complete, fields correct, analysis reviewed*
Deviations / qualifiers	*None*	**Amendment history**	*N/A*

Report conditions: Results are analytical findings for the item tested and do not constitute an endorsement of product safety, efficacy or regulatory status. Unless otherwise stated, this certificate may be reproduced only in full with written approval from AV Analytics.