IRON WITHIN RESEARCH

SS-31 — Certificates of Analysis

Every batch we have tested for this product, newest first.
Match the strength on your vial to the rows below and turn to that page.

Page numbers include this index page. Testing is per production batch; one batch can cover several vial sizes.

SUMMIT
BIOANALYTICS

Certificate of Analysis

#SBA-26-0082

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR
Iron Within Research

SAMPLE
SS-31 — 50 mg

PASS

BATCH #	PURITY	MASS	IDENTITY
IWR-081026SS	99.13%	51.12 mg	Confirmed

COA #:	SBA-26-0082	Method:	Full QC Panel
Lot Number:	IWR-081026SS	Analysis Date:	2026-08-13
Labeled Content:	50 mg	Date Received:	2026-08-10
		Appearance:	White lyophilized powder, intact seal
		Vial Cap:	Light blue #7FB2E5

SCAN TO VERIFY

- ✓ Identity
- ✓ Purity
- ✓ Endotoxins
- ✓ Fentanyl Free

Test	Specification	Result
Identity	SS-31	Confirmed
Purity (HPLC)	>= 98.0%	99.13%
Content (per vial)	Report only	51.12 mg/vial
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.04 EU/mL
Sterility Screen (rapid PCR)	No growth	No growth
Heavy Metals (ICP-MS)	ICH Q3D limits	All analytes within limits

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganius

Kasey Malganius
Lab Director
2026-08-13

COA #:	**SBA-26-0082**
Access Code:	**79J2HA45**
Analyst:	**A. Grinder**
Verify:	summitbioanalytics.com/verify
Issued:	2026-08-13

Certificate of Analysis

FREEDOM DIAGNOSTICS

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net

Client:	Iron Within Research
Accession #:	2606250659
Search Code:	Iron2606250659
Received:	06/25/2026
Reported:	06/29/2026
Lot:	IWR5506

Sample Summary

Product:	SS-31 50mg	**Purity:**	99.81%
Identity:	Confirmed	**Net Content:**	54.83 mg
Appearance:	White Lyophilized Powder		
Fentanyl Screen:	Negative		

Analytical Results

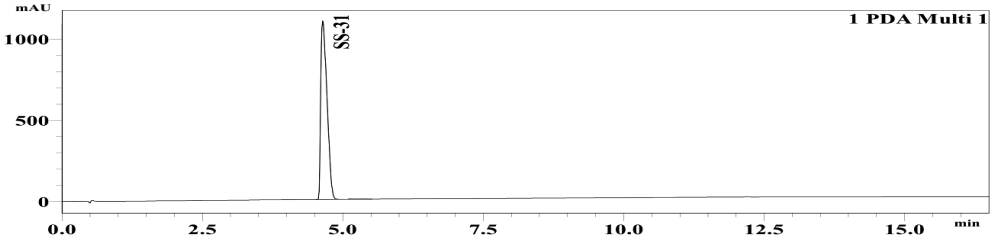
Test	Result
Identity (LC-MS)	SS-31
Purity (HPLC-UV)	99.81%
Net Content	54.83 mg

Method: Endotoxin testing performed using Limulus Amebocyte Lysate assay in accordance with USP <85> under validated laboratory conditions.

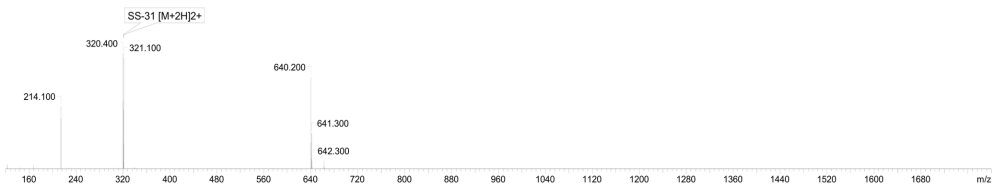
Endotoxin Replicate 1:	Pass	Assay Sensitivity: ≤0.05 EU/mL
Endotoxin Replicate 2:	Pass	Assay Sensitivity: ≤0.05 EU/mL

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation



Alex Johnson

Principal Chemist

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net

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SUMMIT
BIOANALYTICS

Certificate of Analysis

#SBA-26-0058

Summit BioAnalytics | Nassau, The Bahamas | lab@summitbioanalytics.com | summitbioanalytics.com

TESTED FOR
Iron Within Research

SAMPLE
SS-31 — 50 mg

PASS

BATCH #	PURITY	MASS	IDENTITY
IWR-2607-SS50	99.29%	53.21 mg	Confirmed

COA #:	SBA-26-0058	Method:	Full QC Panel
Lot Number:	IWR-2607-SS50	Analysis Date:	2026-08-02
Labeled Content:	50 mg	Date Received:	2026-07-29
		Appearance:	White lyophilized powder, intact seal

SCAN TO VERIFY

- Identity
- Purity
- Endotoxins
- Fentanyl Free

VIAL CAP
Pink
#FB84B0

CLOSURE AS RECEIVED

Test	Specification	Result
Identity	SS-31	Confirmed
Purity (HPLC)	>= 98.0%	99.29%
Content (gross)	Report only	53.21 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.10 EU/mL

Test	Specification	Result
Sterility Screen (rapid PCR)	No growth	**No growth**
Heavy Metals (ICP-MS)	ICH Q3D limits	**All analytes within limits**

Qualitative and quantitative chemical analysis by RP-HPLC with UV detection; identity confirmed by LC-MS. Fentanyl screening by targeted LC-MS/MS. Sterility by rapid nucleic-acid amplification — a screening method, not compendial sterility per USP <71>. Full methodology available on request.

Kasey Malganius
Lab Director
2026-08-02

COA #:	**SBA-26-0058**
Access Code:	**8Y5CXXAQ**
Analyst:	**R. Whitfield**
Verify:	summitbioanalytics.com/verify
Issued:	2026-08-02

FREEDOM DIAGNOSTICS

Certificate of Analysis

FreedomDiagnosticsTesting.com

Admin@FreedomDiagnostics.net

Client:	Iron Within Research
Accession #:	2606080224
Search Code:	Iron2606080224
Received:	06/08/2026
Reported:	06/09/2026
Lot:	IWR6526

Sample Summary

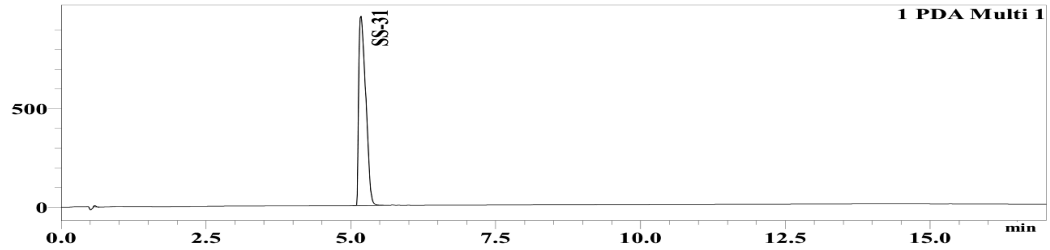
Product:	SS-31 50mg	**Purity:**	99.80%
Identity:	Confirmed	**Net Content:**	51.71 mg
Appearance:	White Lyophilized Powder	**Fentanyl Screen:**	Negative

Analytical Results

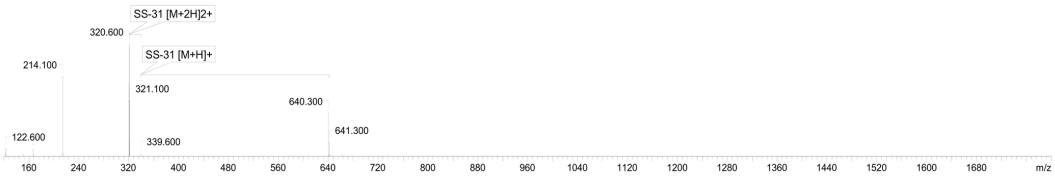
Test	Result
Identity (LC-MS)	SS-31
Purity (HPLC-UV)	99.80%
Net Content	51.71 mg

Method: HPLC with UV detection coupled with mass spectrometry (LC-MS).

Chromatogram



Mass Confirmation



Principal Chemist

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The peptide purity analysis reported here was conducted using LCMS/MS under standard laboratory conditions. This analysis is intended for informational purposes only and is specific to the sample(s) provided. The peptides tested are intended for research use only and are not approved for human or veterinary use, diagnostic, therapeutic, or clinical applications. Results should be interpreted by qualified professionals within the scope of the intended research. The accuracy and reliability of the test may be influenced by sample integrity, handling, and other experimental variables.