

TB-500 — 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	STRENGTH	BATCH / LOT
2-3	10mg, 11mg	8/13/2026 · Lot IWR-081026TB
4-7	10mg, 25mg, 91mg	8/2/2026 · Lot IWR-2607-TB50010L



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

TESTED FOR

Iron Within Research

SAMPLE

TB-500 — 10 mg

PASS

BATCH #

IWR-081026TB

PURITY

99.75%

MASS

10.11 mg

IDENTITY

Confirmed

COA #:

SBA-26-0087

Method:

Full QC Panel

Lot Number:

IWR-081026TB

Analysis Date:

2026-08-13

Labeled Content:

10 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	TB-500	Confirmed
Purity (HPLC)	>= 98.0%	99.75%
Content (per vial)	Report only	10.11 mg/vial
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.02 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 Malganus

Kasey Malganus

Lab Director

2026-08-13

COA #:

SBA-26-0087

Access Code:

NNPM5EJ3

Analyst:

A. Grinder

Verify:

summitbioanalytics.com/verify

Issued:

2026-08-13

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

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.

Lot Number: **IWR-5928420-P**
 Client Name: **Iron Within Research**
 Identity: **www.ironwithinresearch.com**

Received Date: **05/20/2026**
 Analysis Conducted: **05/15/2026**
 Searchable via: **horizonanalytical.com**

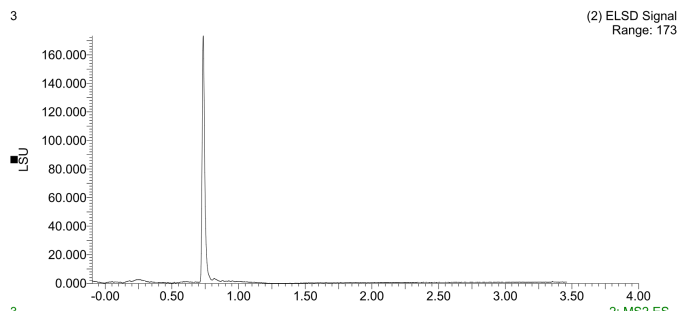
Compound:	TB-500
Lot:	IWR-5928420-P
Appearance:	White Lyophilized Powder

CAS:	77591-33-4
Formula:	C ₂₁₂ H ₃₅₀ N ₅₆ O ₇₈ S
Mol Weight:	~4963 g/mol

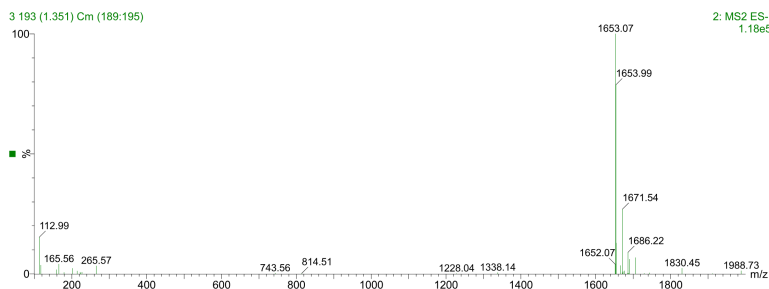
Pubchem CID: 16132341

Qualitative and Quantitative chemical analysis by Ultra High Performance Liquid Chromatography with Mass Spectrometry

	Specification	Result	Scan to Validate:
Compound Test:	TB-500	TB-500	
Quantity:	10mg	10.25mg	
Purity:	>98%	99.4%	



UPLC



MS

Aleksey Yevtodiyenko PhD
Research and Formulation Chemist

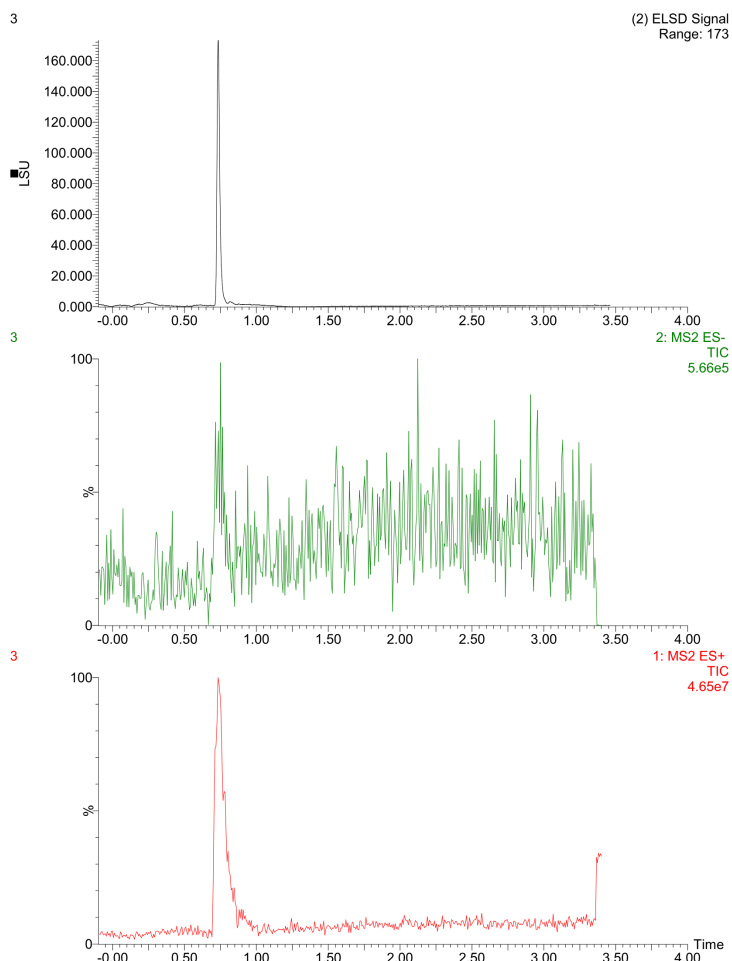


This purity analysis was conducted using UPLC/MS under standard laboratory conditions, following validated analytical protocols to ensure accurate and reliable results. This analysis is intended for informational and research applications.

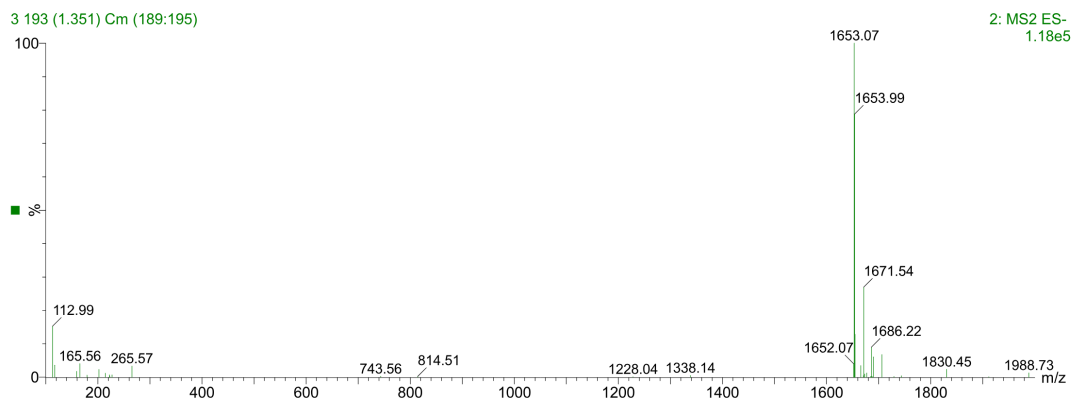
Lot Number: IWR-5928420-P
 Client Name: Iron Within Research
 Identity: www.ironwithinresearch.com

Received Date: 05/20/2026
 Analysis Conducted: 05/15/2026
 Searchable via: horizonanalytical.com

TB-500 (10mg) • Pubchem CID: 16132341
 Ultra High Performance Liquid Chromatography (UPLC)



Mass Spectrometry (MS)





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

TESTED FOR

Iron Within Research

SAMPLE

TB-500 — 10 mg

PASS

BATCH #

IWR-2607-
TB50010

PURITY

99.85%

MASS

10.91 mg

IDENTITY

Confirmed

COA #:

SBA-26-0059

Method:

Full QC Panel

Lot Number:

IWR-2607-TB50010

Analysis Date:

2026-08-02

Labeled Content:

10 mg

Date Received:

2026-07-29

Appearance:

White lyophilized
powder, intact seal



SCAN TO VERIFY



Identity



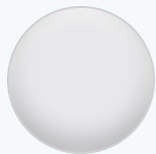
Purity



Endotoxins



Fentanyl Free



VIAL CAP

White

#E8E8EA

CLOSURE AS
RECEIVED

Test	Specification	Result
Identity	TB-500	Confirmed
Purity (HPLC)	>= 98.0%	99.85%
Content (gross)	Report only	10.91 mg
Fentanyl Screen (LC-MS/MS)	Not detected	Not detected
Endotoxins (LAL)	Report Result	0.09 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 Malganus

Kasey Malganus
Lab Director
2026-08-02

COA #: SBA-26-0059
Access Code: 3BN7XUQN
Analyst: R. Whitfield
Verify: summitbioanalytics.com/verify
Issued: 2026-08-02

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

This certificate relates only to the item tested, as received. Research use only — not for human or veterinary use. A not-detected screening result describes this sample only and is not a statement about any other unit or lot.