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-2026-26601	*20260900831*	*27-OCT-2026*	*FINAL*

01 CLIENT & PRODUCT INFORMATION

Client organization	*Redline Bio Labs*	**Client contact**	*redlinebiolabs@yahoo.com*
Product name	*TB-500*	**Client lot / batch**	*TB-006*
Label claim	*10 mg*	**Lab sample ID**	*20260900831*
Sample matrix	*Lyophilized Powder*	**Quantity received**	*1*
Container / closure	*Clear vial/black cap*	**Condition on receipt**	*Intact*
Date received	*22 Oct 2026*	**Testing period**	*23-25 OCT 2026*
Storage condition	*Ambient*	**Route / intended use**	*RUO*

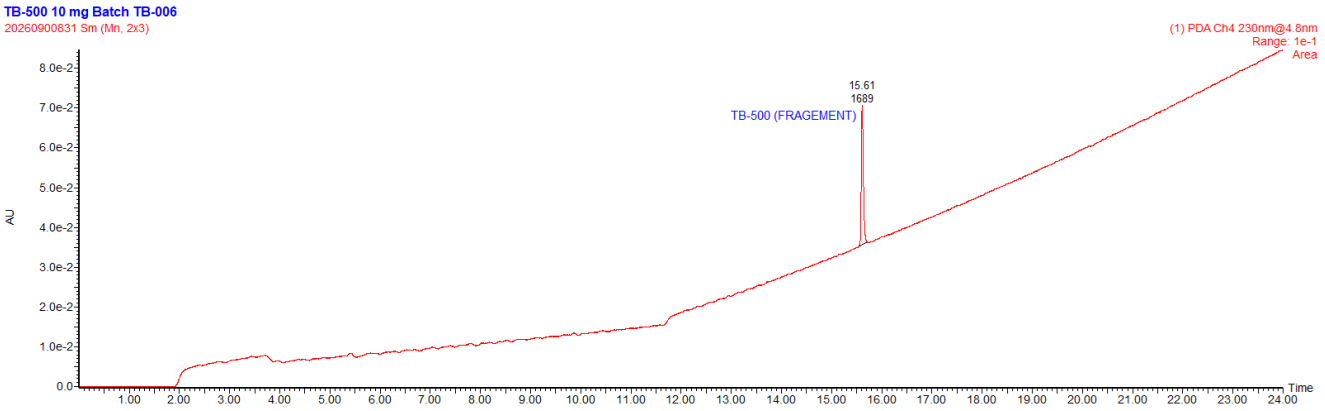
02 ANALYTICAL TEST RESULTS | Purity, identification and net content

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*	*10.09*	*mg/vial*	*±10%*	*PASS*

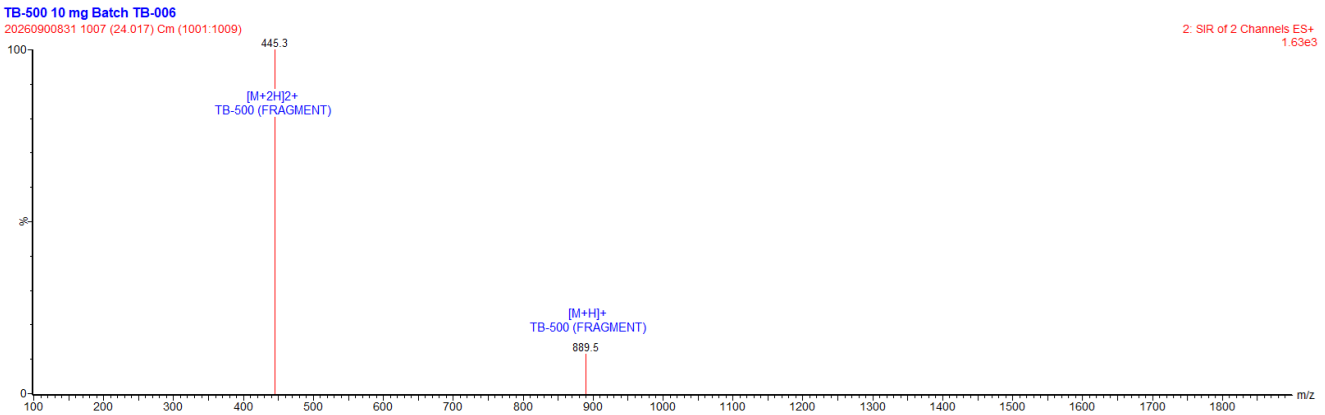
03 SUPPORTING ANALYTICAL EVIDENCE | UV/MASS Chromatograms/Spectra



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-20260900831*	**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-20260900831*
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	*0.20*	*<0.5*	*EU/mL*	*PASS*
Positive product control recovery	*107*	*50-200*	*%*	*PASS*
Negative control	*Non-Detect*	*<0.005*	*EU/mL*	*PASS*
Standard curve / assay validity	*0.99*	*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*

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