

ILS Laboratories

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(619) 329-3999 | ils-lab.com

Metaboflex - 120mg



Tested for: Southern Aminos

31938 Temecula Pkwy, Suite A PMB #361 Temecula, CA 92592 | www.southernaminos.com

COA #: COA-2026-QEFID1
Lot Number: MBF120826R
Accession #: ACC-2026-14402
Labeled Content: 120mg

Analysis Date: 08/12/2026
Appearance: Good
Sample Matrix: Lyophilized
Volume: 5mL
Date Received: 08/05/2026

PASS



Scan to verify
authenticity at ils-lab.com
Access Code: XGML6L7C

Method: Full QC Panel

Identity	Purity	
Metaboflex	98.83%	 Fentanyl Free

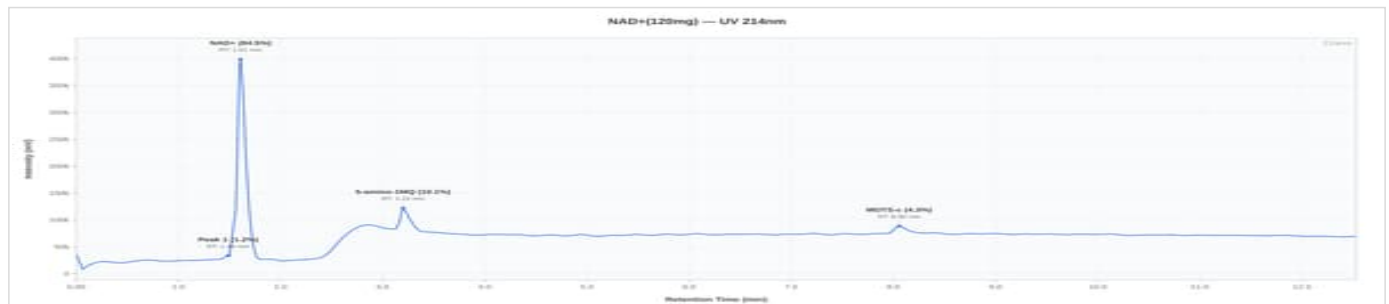
Blend Purity, Identity & Quantitation (HPLC)

Analyte	Specification	Result	Unit	Status
Purity (HPLC)	>= 95.0%	98.83%	%	PASS
Net Blend Peptide Content	Report Only	126.99	mg	N/A
-- NAD+		105.40	mg	
-- 5-Amino-1MQ		10.60	mg	
-- MOTS-C		10.49	mg	
Identity (HPLC-RTM)	NAD+ + 5-AMINO-1MQ + MOTS-C	Confirmed	-	PASS
Fentanyl Screen	Immunoassay, 50 ng/mL cutoff	Not Detected	-	PASS



Metaboflex 120mg - MBF120826R

HPLC Chromatogram



Representative chromatogram, Conformity V4



Dr. Greg Kalyuzhny

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Lab Director
8/12/2026

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Verify: portal.ils-lab.com/verify/BGNnYCPmgjudra0X
Issued: 8/12/2026

HPLC Conformity Testing Results (8 samples tested)

Sample	Purity	NPC	ID	Result
Dedicated V0	98.83%	126.99 mg	Confirmed	PASS
Conformity V1	98.83%	126.84 mg	Confirmed	PASS
Conformity V2	98.83%	121.64 mg	Confirmed	PASS
Conformity V3	98.78%	126.85 mg	Confirmed	PASS
Conformity V4	98.68%	122.58 mg	Confirmed	PASS
Conformity V5	98.79%	126.88 mg	Confirmed	PASS
Conformity V6	98.66%	126.09 mg	Confirmed	PASS
Conformity V7	97.98%	122.38 mg	Confirmed	PASS
Mean	98.67%	125.03 mg	—	—
Std Dev	0.2692%	2.2219 mg	—	—

Heavy Metals Analysis (ICP-MS)

Test	Specification	Result	Status
Arsenic (As)	NMT 1.5 ppm	Not Detected	PASS
Cadmium (Cd)	NMT 0.5 ppm	Not Detected	PASS
Lead (Pb)	NMT 1.0 ppm	Not Detected	PASS
Mercury (Hg)	NMT 1.5 ppm	Not Detected	PASS
Chromium (Cr)	NMT 10.0 ppm	Not Detected	PASS

Sterility Testing (PCR)

Test	Specification	Result	Status
Sterility (PCR)	No Growth	No Growth	PASS

Endotoxin Testing (USP <85>)

Test	Specification	Result	Status
Endotoxin (USP <85>)	Report Result	0.087 EU/mL	Reported

About this result: Endotoxin is reported as a quantitative value. Acceptable limits vary by product type and matrix, so no universal pass/fail threshold applies to RUO products. This result is below commonly referenced endotoxin thresholds.

Notes & Methodology

- Date Tested: 08/12/2026. Methods: Blend Purity, Identity & Quantitation (HPLC).
- The sample was confirmed to be Metaboflex by HPLC. Identification by chromatographic retention time comparison with a reference standard.
- Elemental impurities analyzed by ICP-MS per USP <233> methodology. Acceptance criteria are internal laboratory quality screening limits for research-use materials and do not represent evaluation against any specific pharmacopeial monograph or product specification.
- Endotoxin tested per USP <85> kinetic chromogenic method. Acceptance criteria per client specification.
- Purity determined by RP-HPLC area normalization at 214 nm.
- Per-component content calculated from total net peptide content using the manufacturer's stated formulation ratio (NAD+, 5-Amino-1MQ, MOTS-C). All components confirmed present by HPLC identity testing, unless explicitly stated otherwise.
- Chromatogram shown is representative: Conformity V4 (98.68% purity, closest to batch mean of 98.67%).




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Lab Director
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