LIGHT LABS

Certificate of Analysis

Prepared For

Customer	Unplastic
Email	[redacted]
Phone	
Address	

Lab Contact

Name	Light Labs Support
Email	[redacted]
Phone	(737) 237-8951
Address	600 South Wagner Road, #400 Ann Arbor, MI 48103

General Information

Name	Unplastic Retainer, Default
Lot	No Lot Specified
Notes	For this test the sample was leached in Artificial Saliva for Pharmaceutical Research (Sigma-Aldrich SKU SAE0149) for 24 hrs at 37 degrees C to simulate conditions in the mouth. The data displayed on the COA correspond to the nanograms of each metal leached per g of material even though it is labeled as ppb. A process blank was run in parallel with the samples and the contribution of each metal in the blank leaching solution was subtracted from the raw sample signals.

Date Received	2026-07-15	Assay	Heavy Metals
Date Tested	2026-07-17	Method	LLMTDA1 (ICPMS)
Test	95656	Location	In-house
Order	11588	Serving Size	0.8 mg

Analyte	LOQ	Specification	Result	Status
Arsenic	0.27 ppb (0.0000002 mcg/serving)	≤ 10 mcg/serving	ND	In-Spec
Cadmium	0.05 ppb (0.00000004 mcg/serving)	≤ 4.1 mcg/serving	0.16 ppb (0.0000001 mcg/serving)	In-Spec
Lead	0.76 ppb (0.000001 mcg/serving)	≤ 0.5 mcg/serving	1 ppb (0.000001 mcg/serving)	In-Spec
Mercury	0.29 ppb (0.0000002 mcg/serving)	≤ 0.3 mcg/serving	ND	In-Spec

LLMTDA is a method developed at Light Labs, Ann Arbor MI to test heavy metals in food and dietary supplement products. The method is modified from FDA EAM 4.7 and uses similar sample preparation and ananlytical techniques to those described in EAM. Microwave assisted digestion in mineral acids is used to prepare samples for heavy metal analysis by triple quadrupole inductively coupled plasma mass spectrometry (ICP-MS/MS). LLMTDA is part of Light Labs' scope of ISO 17025 accredited methods.

Results Approved By

Lev Spivak-Birndorf
Lab Director
Date Generated: 2026-07-17

ilac-MRA

PJLA
Testing
Accreditation #128155