



A & R Laboratories, Inc.

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CHEMISTRY · MICROBIOLOGY · FOOD SAFETY · MOBILE LABORATORIES
FOOD · COSMETICS · WATER · SOIL · SOIL VAPOR · WASTES

CASE NARRATIVE

Authorized Signature Name / Title (print)	Ken Zheng, President
Signature / Date	<div>Ken Zheng</div> <div>Ken Zheng, President 07/11/2024 14:30:38</div>
Laboratory Job No. (Certificate of Analysis No.)	2407-00063
Project Name / No.	GUMMIES
Dates Sampled (from/to)	07/08/24 To 07/08/24
Dates Received (from/to)	07/08/24 To 07/08/24
Dates Reported (from/to)	07/11/24 To 7/11/2024
Chains of Custody Received	Yes

Comments:

Subcontracting

Inorganic Analyses

No analyses sub-contracted

Sample Condition(s)

All samples intact

Positive Results (Organic Compounds)

None



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CERTIFICATE OF ANALYSIS

2407-00063

Date Reported 07/11/24
 Date Received 07/08/24
 Invoice No. 2012
 Cust # U005
 Permit Number
 Customer P.O.

Project: GUMMIES

Analysis	Result	Qual	Units	Method	DF	RL	Date	Tech
Sample: 001 GUMMIES						Date & Time Sampled:		07/08/24
Sample Matrix: Food								
[Metals Title 22 no Hg]								
Metals Acid Digestion	Complete			EPA 3050B	1.0		07/11/24	TLB
Antimony	<1.0		mg/Kg	EPA 6010B	1.0	1.0	07/11/24	TLB
Beryllium	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Cadmium	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Cobalt	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Lead	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Molybdenum	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Nickel	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Silver	<1.0		mg/Kg	EPA 6010B	1.0	1.0	07/11/24	TLB
Thallium	<1.0		mg/Kg	EPA 6010B	1.0	1.0	07/11/24	TLB
Vanadium	<0.50		mg/Kg	EPA 6010B	1.0	0.50	07/11/24	TLB
Zinc	<5.0		mg/Kg	EPA 6010B	1.0	5.0	07/11/24	TLB
[Mercury]								
Mercury Digestion	Complete			EPA 7471A	1.0		07/09/24	KZ
Mercury	<0.042		mg/Kg	EPA 7471A	1.0	0.042	07/09/24	KZ

Respectfully Submitted:

Ken Zheng

Ken Zheng - Lab Director



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QUALIFIERS

B = Detected in the associated Method Blank at a concentration above the routine RL.
B1 = BOD dilution water is over specifications . The reported result may be biased high.
D = Surrogate recoveries are not calculated due to sample dilution.
E = Estimated value; Value exceeds calibration level of instrument.
H = Analyte was prepared and/or analyzed outside of the analytical method holding time
I = Matrix Interference.
J = Analyte concentration detected between RL and MDL.
Q = One or more quality control criteria did not meet specifications. See Comments for further explanation.
S = Customer provided specification limit exceeded.

ABBREVIATIONS

DF = Dilution Factor
RL = Reporting Limit, Adjusted by DF
MDL = Method Detection Limit, Adjusted by DF
Qual = Qualifier
Tech = Technician



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QUALITY CONTROL DATA REPORT

2407-00063

Date Reported 07/11/2024
 Date Received 07/08/2024
 Date Sampled 07/08/2024
 Invoice No. 2012
 Customer # U005
 Customer P.O.

Project: GUMMIES

Method # EPA 6010B

QC Reference # 116875 Date Analyzed: 7/11/2024 Technician: TLB

Samples 001

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD		LCS %REC	LCS %RPD	SPIKE %RPD
Antimony	101	100	0.8	97	97	0.5		75 - 125	0 - 20	0 - 20
Arsenic	104	103	0.6	122	121	1.3		75 - 125	0 - 20	0 - 20
Barium	98	99	1.0	100	99	0.4		75 - 125	0 - 20	0 - 20
Beryllium	104	105	0.8	96	96	0.0		75 - 125	0 - 20	0 - 20
Cadmium	101	99	1.3	95	95	0.6		75 - 125	0 - 20	0 - 20
Chromium	111	113	1.0	105	106	0.3		75 - 125	0 - 20	0 - 20
Cobalt	102	101	1.3	95	95	0.4		75 - 125	0 - 20	0 - 20
Copper	102	101	0.8	95	95	0.0		75 - 125	0 - 20	0 - 20
Lead	102	101	1.0	88	87	0.8		75 - 125	0 - 20	0 - 20
Molybdenum	109	109	0.1	112	111	0.5		75 - 125	0 - 20	0 - 20
Nickel	101	100	1.6	96	96	0.6		75 - 125	0 - 20	0 - 20
Selenium	98	98	0.5	130	131	0.6		75 - 125	0 - 20	0 - 20
Silver	99	100	0.9	88	87	0.8		75 - 125	0 - 20	0 - 20
Thallium	114	115	0.4	106	105	0.8		75 - 125	0 - 20	0 - 20
Vanadium	109	109	0.2	103	103	0.1		75 - 125	0 - 20	0 - 20
Zinc	101	100	1.2	99	96	3.0		75 - 125	0 - 20	0 - 20

Method # EPA 7471A

QC Reference # 116839 Date Analyzed: 7/9/2024 Technician: KZ

Samples 001

Results

	LCS %REC	LCS %DUP	LCS %RPD	SPIKE %REC	SPIKE %DUP	SPIKE %RPD		LCS %REC	LCS %RPD	SPIKE %RPD
Mercury	94	99	5	97	94	3		75 - 125	0 - 25	0 - 25

No method blank results were above reporting limit

Respectfully Submitted:

Ken Zheng

Ken Zheng - President