



# Product Development (R&D)

Report Published: 12/07/2023

**Client Name:** Reddi Beverage Company  
LLC

**Address:** 1229 N North Branch Chicago,  
IL. 60607

**Phone:** (630) 407-4875

**Certificate Number:** 11105

**License Number:** N/A

**Sample Description:** CS LB

**Batch ID:** None

**Lot ID:** None

**Sample ID:** 49-2312-03

**Sampling Method:** SOP-SMPL-002

**Sample Type:** Beverage (Low)

**Sampling Date:** 12/04/2023



## Results Summary

### Potency

✓ TESTED

**Date Analyzed:** 12/07/2023

**Method Used:**  
SOP-CANN-001

### Terpenes

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_TERP\_001

### Pesticides

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_PEST\_001

### Mycotoxins

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_MYCO\_001

### Heavy Metals

✓ TESTED

**Date Analyzed:** 12/06/2023

**Method Used:**  
SOP\_HM\_001

### Residual Solvents

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_RS\_001

### Microbial Impurities

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_MICRO\_001

### Foreign Matter

✓ TESTED

**Date Analyzed:** 12/05/2023

**Method Used:**  
SOP\_FM\_001

## Potency

✓ TESTED

**Date Analyzed:** 12/07/2023  
**Instrument:** Agilent 1260 HPLC

**Date Completed:** 12/07/2023  
**Lab Tech:** Malcolm Manning

**Moisture Content (%):** None  
**Unit Size (mL):** 355

Cannabinoid	Result (%)	Result (mg/g)	Result (mg/unit)	Result (mg/package)	LOD (%)	LOQ (%)	Relative Abundance
CBDVA	ND	ND	ND	ND	0.00025	0.0005	
CBDV	ND	ND	ND	ND	0.00025	0.0005	
CBDA	ND	ND	ND	ND	0.00025	0.0005	
CBD	ND	ND	ND	ND	0.00025	0.0005	
THCVA	ND	ND	ND	ND	0.00025	0.0005	
THCV	ND	ND	ND	ND	0.00025	0.0005	
THCA	ND	ND	ND	ND	0.00025	0.0005	
Δ9 THC	0.001	0.006	2.210	2.210	0.00025	0.0005	
Δ8 THC	ND	ND	ND	ND	0.00025	0.0005	
CBN	ND	ND	ND	ND	0.00025	0.0005	
CBCA	ND	ND	ND	ND	0.00025	0.0005	
CBC	ND	ND	ND	ND	0.00025	0.0005	
CBGA	ND	ND	ND	ND	0.00025	0.0005	
CBG	ND	ND	ND	ND	0.00025	0.0005	
<b>Total THC</b>	<b>0.001</b>	<b>0.006</b>	<b>2.210</b>	<b>2.210</b>			
<b>Total CBD</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>	<b>ND</b>			
<b>Total Cannabinoids</b>	<b>0.001</b>	<b>0.006</b>	<b>2.210</b>	<b>2.210</b>			

**Total THC %** = THC% + (THCA% x 0.877)

**Total CBD %** = CBD% + (CBDA% x 0.877)

**Total Cannabinoids** = Sum of all cannabinoids without THC/CBD corrections.

**LOD** = Limit of Detection; **LOQ** = Limit of Quantitation; **ND** = Not Detected.

The reported result for each analyte includes a moisture content correction equal to: Base% / (1 - Moisture%)

Relative Abundance represents the percentage of each analyte compared with the total cannabinoid content.

## Terpenes

✓ TESTED

**Date Analyzed:** 12/05/2023  
**Instrument:** Agilent 8890/5977B GCMS

**Date Completed:** 12/06/2023  
**Lab Tech:** Landen Nickel

**Moisture Content (%):** None

Terpene	Result (%)	LOD (%)	LOQ (%)	Terpene	Result (%)	LOD (%)	LOQ (%)
α-Bisabolol	ND	0.005	0.025	Δ-3-Carene	ND	0.005	0.025
α-Humulene	ND	0.005	0.025	D-Limonene	ND	0.005	0.035
α-Pinene	ND	0.005	0.025	Eucalyptol	ND	0.005	0.025
α-Terpinene	ND	0.005	0.025	Geraniol	ND	0.005	0.035
β-Caryophyllene	ND	0.005	0.025	Guaiol	ND	0.005	0.025
β-Myrcene	ND	0.005	0.025	Isopulegol	ND	0.005	0.025
β-Pinene	ND	0.005	0.025	Linalool	ND	0.005	0.025
Camphene	ND	0.005	0.025	p-Cymene	ND	0.005	0.025
Caryophyllene Oxide	ND	0.005	0.025	Terpinolene	ND	0.005	0.025
cis-β-Ocimene	ND	0.001	0.007	trans-Nerolidol	ND	0.003	0.015
cis-Nerolidol	ND	0.002	0.010	γ-Terpinene	ND	0.005	0.025
				<b>Total Terpene Content</b>	<b>ND</b>		

## Pesticides

 **TESTED**

**Date Analyzed:** 12/05/2023  
**Instrument:** Agilent Ultivo LC-MS/MS

**Date Completed:** 12/06/2023  
**Lab Tech:** Landen Nickel

Pesticide	Result (ppb)	LOD (ppb)	LOQ (ppb)
Acephate	ND	10.000	50.000
Acetamiprid	ND	1.000	5.000
Aldicarb	ND	5.000	10.000
Bifenazate	NR	0.500	1.000
Bifenthrin	ND	5.000	5.000
Carbaryl	ND	5.000	5.000
Carbofuran	ND	0.500	1.000
Chlorantraniliprole	ND	10.000	20.000
Chloromequat Chloride	ND	20.000	40.000
Chlorpyrifos	ND	5.000	5.000
Chlofentezine	ND	5.000	10.000
Coumaphos	ND	5.000	5.000
Diazinon	ND	0.500	1.000
Dimethomorph I	ND	5.000	5.000
Dimethomorph II	ND	5.000	5.000
Ethoprophos	ND	1.000	5.000
Etofenprox	ND	1.000	1.000
Etoxazole	ND	0.500	1.000
Fenhexamid	ND	5.000	10.000
Fenpyroximate	ND	0.500	1.000
Fipronil	ND	5.000	5.000

Pesticide	Result (ppb)	LOD (ppb)	LOQ (ppb)
Flonicamid	ND	1.000	5.000
Fludioxonil	ND	5.000	5.000
Hexythiazox	ND	5.000	5.000
Imidacloprid	ND	1.000	5.000
Kresoxim Methyl	ND	5.000	5.000
Metalaxyl	ND	0.500	1.000
Oxamyl I	ND	1.000	5.000
Phosmet	ND	5.000	5.000
Prallethrin	NR	5.000	10.000
Pyridaben	ND	0.500	1.000
Spinetoram J	ND	0.500	1.000
Spinetoram L	ND	0.500	1.000
Spinosyn A	ND	5.000	5.000
Spinosyn D	ND	5.000	5.000
Spiromesifen	NR	0.500	1.000
Spirotetramat	NR	5.000	5.000
Spiroxamine I	ND	0.500	1.000
Spiroxamine II	ND	0.500	1.000
Tebuconazole	ND	5.000	5.000
Thiacloprid	ND	0.500	1.000
Thiamethoxam	ND	1.000	5.000
Trifloxystrobin	ND	0.500	1.000

## Mycotoxins

 **TESTED**

**Date Analyzed:** 12/05/2023  
**Instrument:** Agilent Ultivo LC-MS/MS

**Date Completed:** 12/06/2023  
**Lab Tech:** Landen Nickel

Mycotoxins	Result (ppb)	LOD (ppb)	LOQ (ppb)
Aflatoxin B1	ND	4.976	9.953
Aflatoxin B2	ND	4.976	9.953
Aflatoxin G1	ND	4.976	9.953
Aflatoxin G2	ND	4.976	9.953
Ochratoxin A	ND	9.953	9.953

## Heavy Metals

 **TESTED**

**Date Analyzed:** 12/06/2023  
**Instrument:** Agilent 7800 ICP-MS

**Date Completed:** 12/07/2023  
**Lab Tech:** Malcolm Manning

Heavy Metals	Result (ppb)	LOD (ppb)	LOQ (ppb)
Lead	ND	1.553	77.640
Arsenic	<LOQ	1.553	77.640
Cadmium	ND	1.553	77.640
Mercury	ND	1.553	7.764
Chromium	ND	1.553	77.640

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Landen Nickel - Lab Supervisor 12/07/2023

## Residual Solvents

✓ TESTED

**Date Analyzed:** 12/05/2023  
**Instrument:** GC-FID

**Date Completed:** 12/06/2023  
**Lab Tech:** Malcolm Manning

Residual Solvent	Result (ppm)	LOD (ppm)	LOQ (ppm)
Propane	ND	7.493	14.985
Butane	ND	9.772	14.985
Methanol	ND	8.018	14.985
Ethylene Oxide	ND	0.110	2.498
Pentane	ND	3.462	14.985
Ethanol	64.644	1.453	14.985
Ethyl Ether	ND	3.272	14.985
Acetone	ND	3.012	14.985
Petroleum Ether	ND	0.362	1.207
Isopropyl Alcohol	ND	1.306	14.985
Methylene Chloride	ND	0.646	14.985
Hexane	ND	0.362	14.985
Ethyl Acetate	ND	2.007	14.985
Heptane	ND	2.498	14.985
Trichloroethene	ND	0.069	14.985
Toluene	ND	0.478	14.985
Total Xylenes	ND	1.517	14.985

## Microbial Impurities (Quantitative)

✓ TESTED

**Date Analyzed:** 12/05/2023  
**Instrument:** 3M Petrifilm

**Date Completed:** 12/07/2023  
**Lab Tech:** Lillian Catala

Microbials (Quantitative)	Result (CFU/g)
Total Coliform Count	ND
Total BTGN Count	ND
Total Aerobic Content Count	ND
Total Yeast and Mold Count	ND

TNTC = Too numerous to count.

## Microbial Impurities (Qualitative)

✓ TESTED

**Date Analyzed:** 12/05/2023  
**Instrument:** 3M Petrifilm

**Date Completed:** 12/07/2023  
**Lab Tech:** Lillian Catala

Microbials (Qualitative)	Result
STEC	Not Detected
Salmonella Spp.	Not Detected

TNTC = Too numerous to count.

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Landen Nickel - Lab Supervisor 12/07/2023

**Foreign Matter**

 **TESTED**

**Date Analyzed:** 12/05/2023  
**Instrument:** Visual Inspection

**Date Completed:** 12/05/2023  
**Lab Tech:** Malcolm Manning

Foreign Materials	Result (% w/w)
Cinders	ND
Dirt	ND
Insect Fragments	ND
Mold	ND
Other	ND

--- END OF REPORT ---