

STATUS: RELEASED REVISION: 01

DATE: 02/25/2022

 Analysis ID No.
 220583

 TDA License No.
 2020002

 ISO/IEC No.
 1055838

 Purchase Order:
 20220168

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CUSTOMER INFORMATION	SAMPLE INFORMATION
Company Name:	Submitted Sample Name:
ZAAK, LLC	Blue Razz; Delta-8, 10 mg per Gummy
Address:	Submitted Sample Lot:
7901 4 <sup>th</sup> St N STE 300; St Petersburg, Florida 33702 US	0222003980
Phone Number:	Submitted Sample Description:
N/A	Blue Gummies in Resealable Pouch; Stored at Rm Temp
Contact Name / Email:	Submitted Sample Product Type / Matrix:
N/A	Hemp Extract / Edible

TOTAL THC ASSAY							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
∆9-тнс	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.300 mg/g: NMT 3.0 (∆9-THC States Only)	0.013 w/w% 0.128 mg/g	PASS		
ТНСа	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
Total THC	UHPLC-DAD	0.002 w/w%	w/w%: NMT 0.300 mg/g: NMT 3.0	0.013 w/w% 0.128 mg/g	PASS		
	Measurement Uncertainty (MU) = 0.02% at 0.3% THC						

LABEL CLAIM							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
∆8-THC	UHPLC-DAD	0.002 w/w%	mg/g: Report Only mg/Unit: Report Only* Target: 10 mg/unit	1.915 mg/g 9.573 mg/unit	Results Reported		
∆8-THC	UHPLC-DAD	0.002 w/w%	% Label Claim: 90.0 to 110.0% <i>Target: 100%</i>	95.7%	PASS		
	-	*U	nit Weight = 5 grams				

	CANNABINOIDS ASSAY							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail			
CBD	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			
CBDa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			
∆9-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.013 w/w% 0.128 mg/g	Results Reported			
∆8-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.191 w/w% 1.915 mg/g	Results Reported			
Exo-THC	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			
THCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			
CBG	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			
CBGa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported			

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	CANNABINOIDS ASSAY						
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
CBN	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
CBNa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
СВС	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
CBCa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
CBL	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
CBDV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
CBDVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
THCV	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
THCVa	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	< 0.002 w/w%	Results Reported		
Total Cannabinoids	UHPLC-DAD	0.002 w/w%	w/w%: Report Only mg/g: Report Only	0.204 w/w% 2.042 mg/g	Results Reported		

HEAVY METALS							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
Lead	USP <232> <233> by ICP-MS	10 ppb	NMT 1,000 ppb	< LOQ	PASS		
Mercury	USP <232> <233> by ICP-MS	5 ppb	NMT 500 ppb	< LOQ	PASS		
Cadmium	USP <232> <233> by ICP-MS	10 ppb	NMT 300 ppb	< LOQ	PASS		
Arsenic	USP <232> <233> by ICP-MS	10 ppb	NMT 1,500 ppb	< LOQ	PASS		

MICROBIOLOGICAL ASSAY							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
Total Aerobic Plate Count (TAPC)	Isolation Agar	20 CFU/gm	NMT 10,000,000 CFU/gm	< LOQ	PASS		
Total Yeast & Mold (TYM)	Isolation Agar	20 CFU/gm	NMT 100,000 CFU/gm	< LOQ	PASS		
Coliforms	Isolation Agar	20 CFU/gm	NMT 10,000 CFU/gm	< LOQ	PASS		
E. Coli	Isolation Agar	1 CFU/10 gm	Absent in 10 gm	Absent	PASS		

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RESIDUAL SOLVENTS ASSAY						
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail	
1,1-Dichloroethene	USP <467> by GC-MS	0.020 ppm	NMT 8 ppm	< LOQ	PASS	
1,1,1-Trichloroethane	USP <467> by GC-MS	3.75 ppm	NMT 1,500 ppm	< LOQ	PASS	
1,2-Dichloroethane	USP <467> by GC-MS	0.013 ppm	NMT 5 ppm	< LOQ	PASS	
Benzene	USP <467> by GC-MS	0.005 ppm	NMT 2 ppm	< LOQ	PASS	
Carbon tetrachloride	USP <467> by GC-MS	0.010 ppm	NMT 4 ppm	< LOQ	PASS	
1,2-dichloroethene (E,Z)	USP <467> by GC-MS	4.675 ppm	NMT 1870 ppm	< LOQ	PASS	
1,2-Dimethoxyethane	USP <467> by GC-MS	0.25 ppm	NMT 100 ppm	< LOQ	PASS	
1,2,3,4- tetrahydronapthalene	USP <467> by GC-MS	0.25 ppm	NMT 100 ppm	< LOQ	PASS	
1,4-Dioxane	USP <467> by GC-MS	0.95 ppm	NMT 380 ppm	< LOQ	PASS	
2-Hexanone	USP <467> by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS	
4-methyl-2- pentanone	USP <467> by GC-MS	12.5 ppm	NMT 4,500 ppm	< LOQ	PASS	
Acetonitrile	USP <467> by GC-MS	1.025 ppm	NMT 410 ppm	< LOQ	PASS	
Chlorobenzene	USP <467> by GC-MS	0.9 ppm	NMT 360 ppm	< LOQ	PASS	
Chloroform	USP <467> by GC-MS	0.15 ppm	NMT 60 ppm	< LOQ	PASS	
Cumene	USP <467> by GC-MS	0.175 ppm	NMT 70 ppm	< LOQ	PASS	
Cyclohexane	USP <467> by GC-MS	9.7 ppm	NMT 3,880 ppm	< LOQ	PASS	
Dichloromethane	USP <467> by GC-MS	1.5 ppm	NMT 600 ppm	< LOQ	PASS	
Ethylbenzene	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS	
Hexane, n-	USP <467> by GC-MS	0.725 ppm	NMT 290 ppm	< LOQ	PASS	
Methanol	USP <467> by GC-MS	7.5 ppm	NMT 3,000 ppm	< LOQ	PASS	
Methylcyclohexane	USP <467> by GC-MS	2.95 ppm	NMT 1,180 ppm	< LOQ	PASS	
Nitromethane	USP <467> by GC-MS	0.125 ppm	NMT 50 ppm	< LOQ	PASS	
Pyridine	USP <467> by GC-MS	0.50 ppm	NMT 200 ppm	< LOQ	PASS	
Tetrahydrofuran	USP <467> by GC-MS	1.8 ppm	NMT 720 ppm	< LOQ	PASS	
Toluene	USP <467> by GC-MS	2.225 ppm	NMT 890 ppm	< LOQ	PASS	

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Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
Trichloroethene	USP <467> by GC-MS	0.20 ppm	NMT 80 ppm	< LOQ	PASS		
Xylene, m-	USP <467> by GC-MS	108.5 ppm	NMT 2,170 ppm	< LOQ	PASS		
Xylene, o-	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS		
Xylene, p-	USP <467> by GC-MS	5.425 ppm	NMT 2,170 ppm	< LOQ	PASS		
1-Butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
1-Pentanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
1-Propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
2-Butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
2-Butanone	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
2-methyl-1-propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
2-Propanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
3-methyl-1-butanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Acetone	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Anisole	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Butyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Ethanol	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Ethyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Ethyl ether	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Ethyl formate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Heptane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Isobutyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Isopropyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Methyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
N,N- Dimethylsulfoxide	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		
Pentane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS		



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RESIDUAL SOLVENTS ASSAY						
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail	
Propyl acetate	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
t-Butyl Methyl Ether	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
Butane, iso-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
Butane, n-	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	
Propane	USP <467> by GC-MS	12.5 ppm	NMT 5,000 ppm	< LOQ	PASS	

PESTICIDES ASSAY						
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail	
Acetamiprid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS	
Aldicarb	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS	
Azoxystrobin	LC-MS/MS & GC-MS/MS	0.010 ppm	NMT 0.200 ppm	< LOQ	PASS	
Bifenazate	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.200 ppm	< LOQ	PASS	
Boscalid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS	
Carbaryl (Sevin)	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.500 ppm	< LOQ	PASS	
Carbofuran	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS	
Chlorantraniliprole	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS	
Chlorpyrifos	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.600 ppm	< LOQ	PASS	
Cypermethrin	LC-MS/MS & GC-MS/MS	0.025 ppm	NMT 18.0 ppm	< LOQ	PASS	
Diazinon	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 2.600 ppm	< LOQ	PASS	
Dichlorvos	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.100 ppm	< LOQ	PASS	
Ethoprophos (Prophos)	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS	
Etofenprox	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS	
Fipronil	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS	
Flonicamid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 1.000 ppm	< LOQ	PASS	
Imidacloprid	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS	
Metalaxyl	LC-MS/MS & GC-MS/MS	0.100 ppm	NMT 0.200 ppm	< LOQ	PASS	
Methiocarb	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.400 ppm	< LOQ	PASS	

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PESTICIDES ASSAY							
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail		
Methomyl	LC-MS/MS & GC-MS/MS	0.200 ppm	NMT 0.400 ppm	< LOQ	PASS		
Methyl parathion	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 8.500 ppm	< LOQ	PASS		
Myclobutanil	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.300 ppm	< LOQ	PASS		
Oxamyl	LC-MS/MS & GC-MS/MS	0.250 ppm	NMT 1.000 ppm	< LOQ	PASS		
Permethrin (mix of isomers)	LC-MS/MS & GC-MS/MS	0.020 ppm	NMT 1.100 ppm	< LOQ	PASS		
Pyridaben	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS		
Spiroxamine	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 2.000 ppm	< LOQ	PASS		
Tebuconazole	LC-MS/MS & GC-MS/MS	0.005 ppm	NMT 0.400 ppm	< LOQ	PASS		
Thiacloprid	LC-MS/MS & GC-MS/MS	0.050 ppm	NMT 0.200 ppm	< LOQ	PASS		
Thiamethoxam	LC-MS/MS & GC-MS/MS	0.025 ppm	NMT 0.200 ppm	< LOQ	PASS		

MYCOTOXINS ASSAY								
Analysis	Test Method	LOQ	Specifications	Test Results	Pass / Fail			
Total Aflatoxins	LC-MS/MS	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOQ	PASS			
Aflatoxin B1	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported			
Aflatoxin B2	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported			
Aflatoxin G1	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported			
Aflatoxin G2	LC-MS/MS	5 ppb	Report Only	< LOQ	Results Reported			
Ochratoxin A	LC-MS/MS	5 ppb	NMT 20 ppb (20 mcg/kg)	< LOQ	PASS			

TESTING FACILITY INFORMATION	SAMPLE INFORMATION		
Santé Laboratories	Santé Sample ID: 220583		
8201 East Riverside Drive, STE 650	Receipt Date: 02/10/2022 / 01:57 PM CST / M Cardona		
Austin, Texas 78744 USA	Receipt Condition: Good Analysis Start Date: 02/14/2022		

#### ADDITIONAL REPORT NOTES

The reported results presented in this document is only applicable to samples submitted to Santé Laboratories for testing and may not represent the entire lot and/or batch produced by the manufacturer. ©2020 Santé Laboratories, LLC – All Rights Reserved

VERSION HISTORY						
Version	Effective Date	Summary of Changes				
00	02/15/2022	Initial Release				
01	02/25/2022	Addition of Microbiology, Pesticides, Mycotoxins, Heavy Metals, and Residual Solvents				

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	PRODUCT SAMPLE / IMAGE							
	<b>REVIEWED AND APPROVED BY</b>							
Bri	cuSigned by: an Sloat A7685D65C740B Manager 25 February 2022 Date	9:48:43 AM PST	DD-MM-YY					