

KCA Laboratories 232 North Plaza Drive Nicholasville, KY 40356

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## **Pineapple Express**

Sample ID: SA-220722-10725 Batch: 4420322 Type: Finished Products Matrix: Concentrate - Distillate Unit Mass (g):

Received: 07/25/2022 Completed: 08/10/2022

			Summary		
	2		Test	Date Tested	Status
	R HINO X TRACTS		Cannabinoids	08/04/2022	Tested
			Foreign Matter	07/25/2022	Tested
			Heavy Metals	07/27/2022	Tested
			Microbials	07/27/2022	Tested
			Mycotoxins	07/29/2022	Tested
	PINEAPPLE		Pesticides	07/29/2022	Tested
	2 ORAMS		Residual Solvents		Tested
	54.8 %	95.5 %	Not Tested	Not Detected	Yes
Total ∆9-THC	(6aR,9S,10aR)-HHC	Total Cannabinoids	Moisture Content	Foreign Matter	Internal Standard Normalization
	by HPLC-PDA, LC	C-MS/MS, and/	or GC-MS/MS	Result	Result
nalyte		(%)	(%)	(%)	(mg/g)
C		0095	0.0284	ND	ND
CA		.0181	0.0543	ND	ND
CV	0	.006	0.018	ND	ND
D	0.	0081	0.0242	ND	ND
DA	0.	0043	0.013	ND	ND
DV	0.	0061	0.0182	ND	ND
BDVA	0.	0021	0.0063	ND	ND
3G	0.1	0057	0.0172	ND	ND
			0.01/17	ND	ND
BGA	0.0	0049	0.0147		ND
	0	.0112	0.0147	ND	ND
BL	0				
BL BLA	0	.0112	0.0335	ND	ND
BL BLA BN BNA	0.	.0112 0124	0.0335 0.0371 0.0169 0.0181	ND ND	ND ND
BL BLA BN BNA BT		.0112 0124 0056 006 .018	0.0335 0.0371 0.0169 0.0181 0.054	ND ND 0.125 ND ND	ND ND 1.25 ND ND
BL BLA BN BNA BT B-THC		.0112 0124 0056 006 .018 0104	0.0335 0.0371 0.0169 0.0181 0.054 0.0312	ND ND 0.125 ND ND 0.291	ND ND 1.25 ND ND 2.91
BGA BL BLA BN BNA BT B-THC D-THC		.0112 0124 0056 006 .018	0.0335 0.0371 0.0169 0.0181 0.054	ND ND 0.125 ND ND	ND ND 1.25 ND ND

∆9-THCA ND 0.0084 0.0251 ND ∆9-THCV ND ND 0.0069 0.0206 Δ9-THCVA 0.0062 0.0186 ND ND (6aR,9R,10aR)-HHC 0.0067 0.02 40.3 403 (6aR,9S,10aR)-HHC 0.0067 0.02 54.8 548 Total ∆9-THC ND ND Total CBD ND ND Total 95.5 955

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; RL = Reporting Limit;  $\Delta$  = Delta; Total  $\Delta$ 9-THC =  $\Delta$ 9-THCA \* 0.877 +  $\Delta$ 9-THC; Total CBD = CBDA \* 0.877 + CBD;

Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Tested By: Scott Caudill Senior Scientist Date: 08/04/2022



This product or substance has been tested by KCA Laboratories using validated testing methodologies and an ISO/IEC 170252017 accredited quality system. Values reported relate only to the product or substance tested. The reported result is based on a sample weight. Unless otherwise stated, results of tests performed on all quality control samples met criteria for acceptance established by KCA Laboratories. KCA Laboratories makes no claims as to the efficacy, safety or other risks associated with any detected or non-detected amounts of any substances reported herein. This Certificate of Analysis shall not be reproduced except in full, without the written approval of KCA Laboratories. KCA Laboratories and provide measurement uncertainty upon request.



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#### **Pineapple Express** Sample ID: SA-220722-10725 Batch: 4420322 Received: 07/25/2022 Type: Finished Products Completed: 08/10/2022 Matrix: Concentrate - Distillate Unit Mass (g): Heavy Metals by ICP-MS LOD (ppb) Analyte LOQ (ppb) Result (ppb) Arsenic ND 20 2 Cadmium 20 ND 1 2 20 ND Lead 12 Mercury 50 ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Tested By: Nicholas Howard

ested By: Nicholas Howarc Scientist Date: 07/27/2022



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#### Pineapple Express

Sample ID: SA-220722-10725 Batch: 4420322 Type: Finished Products Matrix: Concentrate - Distillate Unit Mass (g):

Received: 07/25/2022 Completed: 08/10/2022

# Pesticides by LC-MS/MS and GC-MS/MS

Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)	Analyte	LOD (ppb)	LOQ (ppb)	Result (ppb)
Acephate	30	100	ND	Hexythiazox	30	100	ND
Acetamiprid	30	100	ND	Imazalil	30	100	ND
Azoxystrobin	30	100	ND	Imidacloprid	30	100	ND
Bifenazate	30	100	ND	Kresoxim methyl	30	100	ND
Bifenthrin	30	100	ND	Malathion	30	100	ND
Boscalid	30	100	ND	Metalaxyl	30	100	ND
Carbaryl	30	100	ND	Methiocarb	30	100	ND
Carbofuran	30	100	ND	Methomyl	30	100	ND
Chloranthraniliprole	30	100	ND	Mevinphos	30	100	ND
Chlorfenapyr	30	100	ND	Myclobutanil	30	100	ND
Chlorpyrifos	30	100	ND	Naled	30	100	ND
Clofentezine	30	100	ND	Oxamyl	30	100	ND
Coumaphos	30	100	ND	Paclobutrazol	30	100	ND
Daminozide	30	100	ND	Permethrin	30	100	ND
Diazinon	30	100	ND	Phosmet	30	100	ND
Dichlorvos	30	100	ND	Piperonyl Butoxide	30	100	ND
Dimethoate	30	100	ND	Prallethrin	30	100	ND
Dimethomorph	30	100	ND	Propiconazole	30	100	ND
Ethoprophos	30	100	ND	Propoxur	30	100	ND
Etofenprox	30	100	ND	Pyrethrins	30	100	ND
Etoxazole	30	100	ND	Pyridaben	30	100	ND
Fenhexamid	30	100	ND	Spinetoram	30	100	ND
Fenoxycarb	30	100	ND	Spinosad	30	100	ND
Fenpyroximate	30	100	ND	Spirotetramat	30	100	ND
Fipronil	30	100	ND	Spiroxamine	30	100	ND
Flonicamid	30	100	ND	Tebuconazole	30	100	ND
Fludioxonil	30	100	ND	Thiacloprid	30	100	ND
				Thiamethoxam	30	100	ND
		$\times$	$\times$	Trifloxystrobin	30	100	ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Support Testéd By: Jared Burkhart

Testéd By: Jared Burkhar Technical Manager Date: 07/29/2022



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## Pineapple Express

Sample ID: SA-22072 Batch: 4420322 Type: Finished Produ Matrix: Concentrate Unit Mass (g):	ucts	Received: 07/25/20 Completed: 08/10/2	
Mycotoxins   Analyte	by LC-MS/MS	LOQ (ppb)	Result (ppb)
B1	1	5	ND
	1	~ J ~ ~	
22	1		
B2	1	5	ND
B2 G1	1	5	

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Bullin

Testéd By: Jared Burkhart Technical Manager Date: 07/29/2022



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## **Pineapple Express**

Sample ID: SA-220722-10725 Batch: 4420322 Type: Finished Products Matrix: Concentrate - Distillate	Received: 07/25/2 Completed: 08/10	
Unit Mass (g):		
Microbials by PCR and Plat	ting	
Microbials by PCR and Plat	LOD (CFU/g)	Result (CFU/g)
		Result (CFU/g) ND
Analyte		
Analyte Total aerobic count		ND
Analyte Total aerobic count Total coliforms		ND ND

ND = Not Detected; NT = Not Tested; LOD = Limit of Detection; LOQ = Limit of Quantitation; CFU = Colony Forming Units; P = Pass; F = Fail; RL = Reporting Limit

Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Tested By: Lucy Jones Senior Laboratory Technician





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#### **Pineapple Express**

Sample ID: SA-220722-10725 Batch: 4420322 Type: Finished Products Matrix: Concentrate - Distillate Unit Mass (g):

Received: 07/25/2022 Completed: 08/10/2022

## **Residual Solvents by HS-GC-MS/MS**

	5						
Analyte	LOD	LOQ	Result	Analyte	LOD (ppm)	LOQ (ppm)	Result
Acetone	<b>(ppm)</b> 167	(ppm) 500	(ppm) ND	Ethylana Clysad	( <b>ppm</b> )	(ppm) 62	(ppm) ND
				Ethylene Glycol		62	
Acetonitrile	14	41	ND	Ethylene Oxide	0.5	1	ND
Benzene	0.5	1	ND	Heptane	167	500	ND
Butane	167	500	ND	n-Hexane	10	29	ND
1-Butanol	167	500	ND	Isobutane	167	500	ND
2-Butanol	167	500	ND	Isopropyl Acetate	167	500	ND
2-Butanone	167	500	ND	Isopropyl Alcohol	167	500	ND
Chloroform	2	6	ND	Isopropylbenzene	167	500	ND
Cyclohexane	129	388	ND	Methanol	100	300	ND
1,2-Dichloroethane	0.5	1	ND	2-Methylbutane	10	29	ND
1,2-Dimethoxyethane	4	10	ND	Methylene Chloride	20	60	ND
Dimethyl Sulfoxide	167	500	ND	2-Methylpentane	10	29	ND
N,N-Dimethylacetamide	37	109	ND	3-Methylpentane	10	29	ND
2,2-Dimethylbutane	10	29	ND	n-Pentane	167	500	ND
2,3-Dimethylbutane	10	29	ND	1-Pentanol	167	500	ND
N,N-Dimethylformamide	30	88	ND	n-Propane	167	500	ND
2,2-Dimethylpropane	167	500	ND	1-Propanol	167	500	ND
1,4-Dioxane	13	38	ND	Pyridine	7	20	ND
Ethanol	167	500	ND	Tetrahydrofuran	24	72	ND
2-Ethoxyethanol	6	16	ND	Toluene	30	89	ND
Ethyl Acetate	167	500	ND	Trichloroethylene	3	8	ND
Ethyl Ether	167	500	ND	Tetramethylene Sulfone	6	16	ND
Ethylbenzene	3	7	ND	Xylenes (o-, m-, and p-)	73	217	ND

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Generated By: Ryan Bellone Commercial Director Date: 08/10/2022

Tested By: Scott Caudill Senior Scientist Date: 08/10/2022



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