



# Certificate of Analysis

Powered by Confident Cannabis

## Arise Bioscience

Boca Raton, FL 33431  
 sarah.reed@arisebioscience.com  
 (239) 244-9418  
 Lic. #CBD

Sample: 2002DBL0473.3161

METRC Sample:  
 Batch #: 0062-PEX  
 Lot #: 0062-PEX

Strain: Pineapple Express  
 Ordered: 02/27/2020; Sampled: 02/28/2020; Completed: 03/08/2020

### 0062-PEX

Concentrates & Extracts, Distillate, Alcohol



Pesticides



Microbials



Mycotoxins



Heavy Metals



Foreign Matter



Solvents

### Terpenes

Analyzed by 300.13 GC/FID and GC/MS



1.190%  
Total Terpenes



Compound	LOQ	Mass	Mass	Relative Concentration
	%	%	mg/g	
β-Pinene	0.009	0.323	3.23	
δ-Limonene	0.009	0.265	2.65	
β-Caryophyllene	0.009	0.257	2.57	
α-Humulene	0.009	0.093	0.93	
Linalool	0.009	0.092	0.92	
α-Bisabolol	0.009	0.057	0.57	
β-Myrcene	0.009	0.051	0.51	
α-Pinene	0.009	0.040	0.40	
Caryophyllene Oxide	0.009	0.012	0.12	
α-Terpinene	0.009	<LOQ	<LOQ	
Camphene	0.009	<LOQ	<LOQ	
cis-Nerolidol	0.006	<LOQ	<LOQ	
cis-Ocimene	0.006	<LOQ	<LOQ	
δ-3-Carene	0.009	<LOQ	<LOQ	
Eucalyptol	0.009	<LOQ	<LOQ	
γ-Terpinene	0.009	<LOQ	<LOQ	
Guaiol	0.009	<LOQ	<LOQ	
Isopulegol	0.009	<LOQ	<LOQ	
p-Cymene	0.009	<LOQ	<LOQ	
Terpinolene	0.009	<LOQ	<LOQ	
trans-Nerolidol	0.003	<LOQ	<LOQ	
trans-Ocimene	0.003	<LOQ	<LOQ	

### Cannabinoid Relative Concentration

Analyzed by 300.18 UHPLC/PDA



<LOQ  
Total THC



48.293%  
Total CBD



NT  
Moisture: Not Tested

62.775%  
Total Cannabinoids

Compound	LOQ	Mass	Mass	Relative Concentration
	%	%	mg/g	
CBC	0.026	5.535	55.35	
CBCa	0.026	<LOQ	<LOQ	
CBD	0.026	48.293	482.93	
CBDa	0.026	<LOQ	<LOQ	
CBDV	0.026	2.632	26.32	
CBDVa	0.026	<LOQ	<LOQ	
CBG	0.026	2.174	21.74	
CBGa	0.026	<LOQ	<LOQ	
CBL	0.026	<LOQ	<LOQ	
CBN	0.026	4.141	41.41	
Δ8-THC	0.026	<LOQ	<LOQ	
Δ9-THC	0.026	<LOQ	<LOQ	
THCa	0.026	<LOQ	<LOQ	
THCV	0.026	<LOQ	<LOQ	
THCVa	0.026	<LOQ	<LOQ	

Total THC = 0.877 x THC-A + Δ9-THC + Δ8-THC; Total CBD = CBDa \* 0.877 + CBD



*Stacy Gardalen*

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Quality Control

*Glen Marquez*

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### 0062-PEX

Concentrates & Extracts, Distillate, Alcohol



#### Pesticides

Analyzed by 300.9 LC/MS/MS and GC/MS/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Abamectin	10	200	<LOQ	Pass
Acequinocyl	10	4000	<LOQ	Pass
Bifenazate	10	400	<LOQ	Pass
Bifenthrin	10	100	<LOQ	Pass
Cyfluthrin	10	2000	<LOQ	Pass
Cypermethrin	10	1000	<LOQ	Pass
Daminozide	10	800	<LOQ	Pass
Dimethomorph	10	2000	<LOQ	Pass
Etoxazole	10	400	<LOQ	Pass
Fenhexamid	10	1000	<LOQ	Pass
Flonicamid	10	1000	<LOQ	Pass
Fludioxonil	10	500	<LOQ	Pass
Imidacloprid	10	500	<LOQ	Pass
Myclobutanil	10	400	<LOQ	Pass
Paclbutrazol	10	400	<LOQ	Pass
Piperonyl Butoxide	10	3000	<LOQ	Pass
Pyrethrins	10	2000	<LOQ	Pass
Quintozene	10	800	<LOQ	Pass
Spinetoram	10	1000	<LOQ	Pass
Spinosad	10	1000	<LOQ	Pass
Spirotetramat	10	1000	<LOQ	Pass
Thiamethoxam	10	400	<LOQ	Pass
Trifloxystrobin	10	1000	<LOQ	Pass
Plant Growth Regulators	10	50	<LOQ	Pass

#### Microbials

Analyzed by 300.1 Plating/QPCR

Pass

Quantitative Analysis	LOQ	Limit	Mass	Status
	CFU/g	CFU/g	CFU/g	
Bile-Tolerant Gram-Negative Bacteria	10	100	<LOQ	Pass
Yeast & Mold	100	1000	<LOQ	Pass

Qualitative Analysis	Detected or Not Detected	Status
Aspergillus	Not Detected	Pass
E. Coli	Not Detected	Pass
Salmonella	Not Detected	Pass

#### Mycotoxins

Analyzed by 300.2 Elisa

Pass

Mycotoxin	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Aflatoxins	4.0	20.0	<LOQ	Pass
Ochratoxin A	2.0	20.0	8.7	Pass

#### Heavy Metals

Analyzed by 300.8 ICP/MS

Pass

Element	LOQ	Limit	Mass	Status
	PPB	PPB	PPB	
Arsenic	50	2000	<LOQ	Pass
Cadmium	50	820	<LOQ	Pass
Lead	50	1200	<LOQ	Pass
Mercury	50	400	<LOQ	Pass

#### Residual Solvents

Analyzed by 300.13 GC/FID and GC/MS

Pass

Compound	LOQ	Limit	Mass	Status
	PPM	PPM	PPM	
Butanes	56	500	<LOQ	Pass
Heptanes	56	500	<LOQ	Pass
Propane	56	500	<LOQ	Pass



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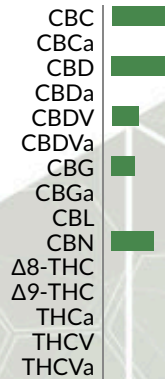
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**0062-PEX**

Concentrates & Extracts, Distillate, Alcohol



### Cannabinoids



### Cannabinoids

<LOQ



Total THC

48.293%



Total CBD

62.775%



Total Cannabinoids

NT



Moisture

### Cannabinoid Profile

Analyzed by 300.18 UHPLC/PDA

Cannabinoid	Mass	Mass	LOQ	
	%	mg/g	%	%
CBC	5.535	55.35	0.026	
CBCa	<LOQ	<LOQ	0.026	
CBD	48.293	482.93	0.026	
CBDa	<LOQ	<LOQ	0.026	
CBDV	2.632	26.32	0.026	
CBDVa	<LOQ	<LOQ	0.026	
CBG	2.174	21.74	0.026	
CBGa	<LOQ	<LOQ	0.026	
CBL	<LOQ	<LOQ	0.026	
CBN	4.141	41.41	0.026	
Δ8-THC	<LOQ	<LOQ	0.026	
Δ9-THC	<LOQ	<LOQ	0.026	
THCa	<LOQ	<LOQ	0.026	
THCV	<LOQ	<LOQ	0.026	
THCVa	<LOQ	<LOQ	0.026	
<b>Total THC</b>	<b>ND</b>	<b>ND</b>		
<b>Total CBD</b>	<b>48.293</b>	<b>482.93</b>		
<b>Total</b>	<b>62.775</b>	<b>627.75</b>		



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