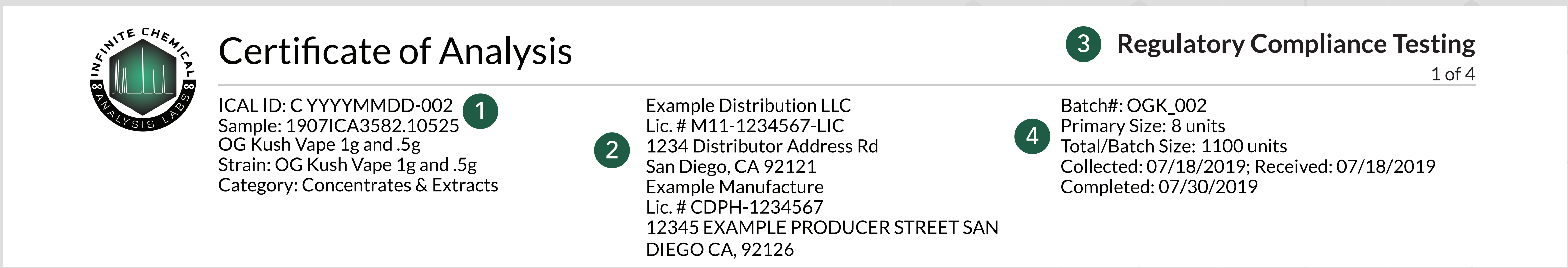
UNDERSTANDING A CERTIFICATE OF ANALYSIS (COA)

SAMPLE INFORMATION



Certificate of Analysis

③ Regulatory Compliance Testing

1 of 4

ICAL ID: C YYYYMMDD-002 ①
Sample: 1907ICA3582.10525
OG Kush Vape 1g and .5g
Strain: OG Kush Vape 1g and .5g
Category: Concentrates & Extracts

②
Example Distribution LLC
Lic. # M11-1234567-LIC
1234 Distributor Address Rd
San Diego, CA 92121
Example Manufacture
Lic. # CDPH-1234567
12345 EXAMPLE PRODUCER STREET SAN DIEGO CA, 92126

④
Batch#: OGK_002
Primary Size: 8 units
Total/Batch Size: 1100 units
Collected: 07/18/2019; Received: 07/18/2019
Completed: 07/30/2019

①

ICAL ID: The internal number used in the lab to identify samples.

Sample ID: The unique number given to each sample through Confident Cannabis. Clients and consumers can provide the last 4 or 5 digits of the ID to an ICAL rep for questions about results.

- **1907** - Tested July 2019
- **ICA** - Infinite Chemical Analysis
- **3582** - Order Number
- **10525** - Sample Number

③

All CoAs will either read **"Regulatory Compliance Testing"** or **"QA Sample- Informational Only".** All legal cannabis products sold in California dispensaries MUST undergo regulatory compliance testing per California's Bureau of Cannabis Control (BCC).

②

Compliance CoAs must have both the **manufacturer or cultivator's license** and the **distributor's license** information and physical address displayed.

License information and addresses are not required for quality assurance testing.

④

Compliance CoAs must have a **unique batch number** assigned by the distributor, **primary batch size, total batch size,** and collection and testing dates displayed on the CoA.

ANALYSIS SUMMARY

Moisture		Total THC	Total CBD	Total Cannabinoids		Total Terpenes
NT	③	854.00 mg/unit	ND	863.50 mg/unit	②	0.22 mg/g
Water Activity		1.20 mg/serving	0.00 mg/serving	1.22 mg/serving		
NT						

①

Summary	SOP Used	Date Tested	
Batch			Pass
Cannabinoids	SOP:003Extract	07/29/2019	Complete
Terpenes	SOP:TERP.002.E	07/29/2019	Complete
Residual Solvents	SOP:Inhalable	07/29/2019	Pass
Microbials	SOP:qpcrone	07/29/2019	Pass
Mycotoxins	SOP: MYCO EX	07/29/2019	Pass
Pesticides	PEST.002.Extract	07/29/2019	Pass
Heavy Metals	SOP:HM001	07/29/2019	Pass
Foreign Matter	SOP:FM-001	07/29/2019	Pass

④

Scan to see results

①

Compliance Analyses Required for Legal Sale of Cannabis Products:

- Cannabinoid/potency
- Pesticides
- Residual Solvents (not required for flower)
- Microbials
- Mycotoxins
- Heavy Metals
- Foreign Materials
- Moisture Content and Water Activity (not required for concentrates)
- Terpenes (if labeled)

③

Analysis Summary: Lists results for Water Activity and Moisture (when applicable), Total THC, Total CBD and Total Cannabinoids in the format labeled on the product packaging (mg/unit or percents). Serving sizes must also be included when applicable.

Label Claims: If the potency results are not within +/- 10% of the product's label claims, labels must be adjusted before the product is sold. A label claim fail will be indicated in the analysis summary.

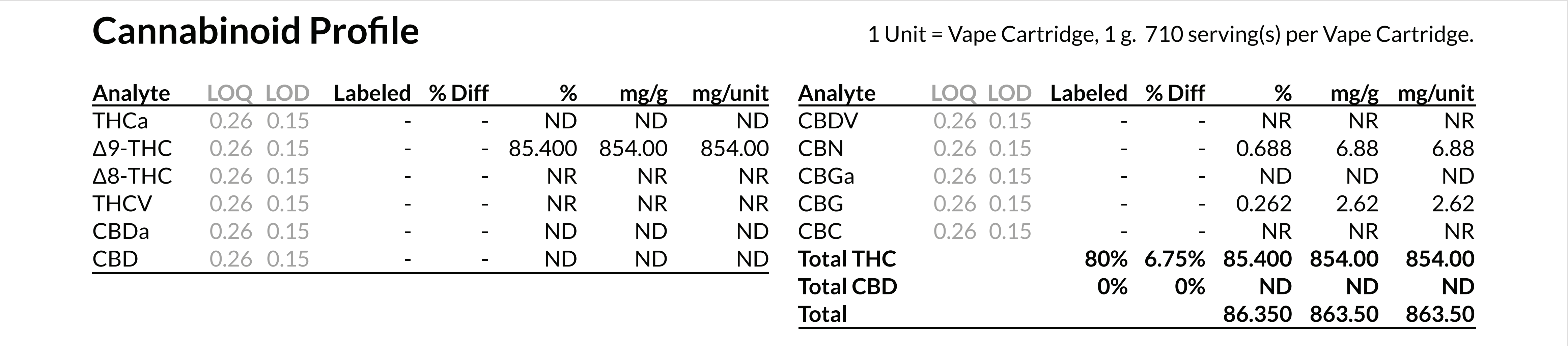
②

Total Terpenes: If a terpene profile is labeled on the product packaging, terpenes must be tested for compliance.

④

QR Code: Every compliance and QA CoA includes a unique QR code which can be scanned to reveal results straight from the reporting platform.

POTENCY RESULTS



Cannabinoid Profile

1 Unit = Vape Cartridge, 1 g. 710 serving(s) per Vape Cartridge.

Analyte	LOQ	LOD	Labeled	% Diff	%	mg/g	mg/unit
THCa	0.26	0.15	-	-	ND	ND	ND
Δ9-THC	0.26	0.15	-	-	85.400	854.00	854.00
Δ8-THC	0.26	0.15	-	-	NR	NR	NR
THCV	0.26	0.15	-	-	NR	NR	NR
CBDa	0.26	0.15	-	-	ND	ND	ND
CBD	0.26	0.15	-	-	ND	ND	ND

Analyte	LOQ	LOD	Labeled	% Diff	%	mg/g	mg/unit
CBDV	0.26	0.15	-	-	NR	NR	NR
CBN	0.26	0.15	-	-	0.688	6.88	6.88
CBGa	0.26	0.15	-	-	ND	ND	ND
CBG	0.26	0.15	-	-	0.262	2.62	2.62
CBC	0.26	0.15	-	-	NR	NR	NR
Total THC			80%	6.75%	85.400	854.00	854.00
Total CBD			0%	0%	ND	ND	ND
Total					86.350	863.50	863.50

Cannabinoid Profile:

- Results reported by dry weight (adjusted to reflect moisture content)
  - Dry-weight percent cannabinoid = wet-weight percent cannabinoid / (1 – percent moisture /100)
- Total THC: (THCa x 0.877) + d9-THC
- Total CBD: (CBDa x 0.877) + CBD

Compliance Cannabinoids: Tests for 7 cannabinoids required by the BCC

- THCA, d9-THC, CBDa, CBD, CBGa, CBG, CBN

Quality Assurance Cannabinoids: Tests for 11 cannabinoids

- THCA, d9-THC, CBDa, CBD, CBGa, CBG, CBN, d8-THC, THCV, CBDV,CBN, CBC

NR (Not Reported): The analysis was not performed.

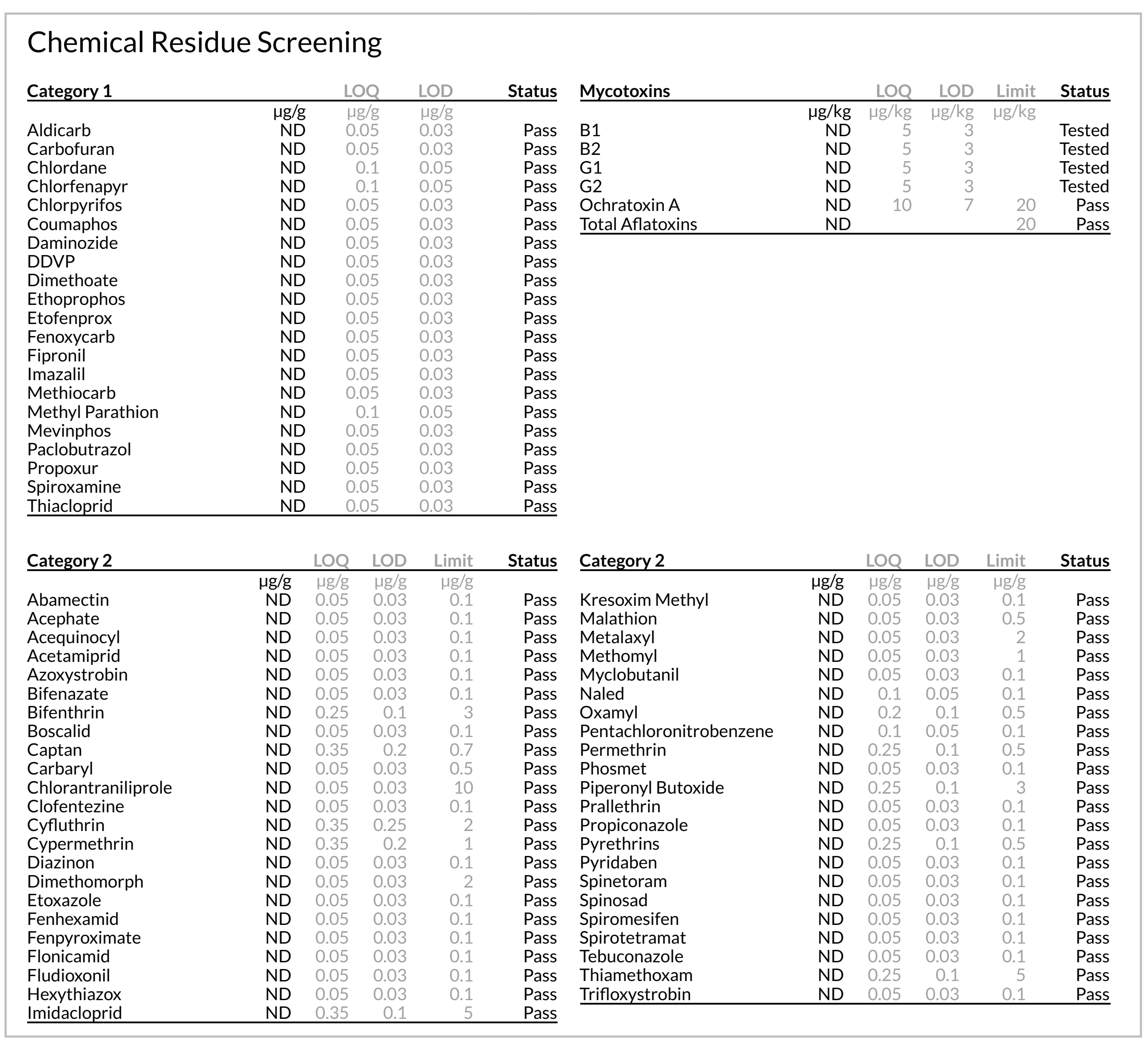
ND (Non-Detect): The analyte was below our limit of detection; analyte was not detected in the sample. Non-detect limits are determined by instrumentation.

Limit of Detection (LOD): The lowest level our chemists can accurately identify an analyte. Limits of detection are determined by instrumentation.

Limit of Quantification (LOQ): The lowest level our chemists can accurately quantify an analyte. Limits of quantification are set by the lab.

Beneath Limit of Quantification (<LOQ): The analyte is above our limit of detection but below our limit of quantification; analyte was detected in trace amounts but cannot accurately be quantified.

SAFETY TESTING RESULTS



Chemical Residue Screening

Category 1	μg/g	LOQ μg/g	LOD μg/g	Status
Aldicarb	ND	0.05	0.03	Pass
Carbofuran	ND	0.05	0.03	Pass
Chlordane	ND	0.1	0.05	Pass
Chlorfenapyr	ND	0.1	0.05	Pass
Chlorpyrifos	ND	0.05	0.03	Pass
Coumaphos	ND	0.05	0.03	Pass
Daminozide	ND	0.05	0.03	Pass
DDVP	ND	0.05	0.03	Pass
Dimethoate	ND	0.05	0.03	Pass
Ethoprophos	ND	0.05	0.03	Pass
Etofenprox	ND	0.05	0.03	Pass
Fenoxycarb	ND	0.05	0.03	Pass
Fipronil	ND	0.05	0.03	Pass
Imazalil	ND	0.05	0.03	Pass
Methiocarb	ND	0.05	0.03	Pass
Methyl Parathion	ND	0.1	0.05	Pass
Mevinphos	ND	0.05	0.03	Pass
Paclobutrazol	ND	0.05	0.03	Pass
Propoxur	ND	0.05	0.03	Pass
Spiroxamine	ND	0.05	0.03	Pass
Thiacloprid	ND	0.05	0.03	Pass

Mycotoxins	μg/kg	LOQ μg/kg	LOD μg/kg	Limit μg/kg	Status
B1	ND	5	3		Tested
B2	ND	5	3		Tested
G1	ND	5	3		Tested
G2	ND	5	3		Tested
Ochratoxin A	ND	10	7	20	Pass
Total Aflatoxins	ND			20	Pass

Category 2	μg/g	LOQ μg/g	LOD μg/g	Limit μg/g	Status
Abamectin	ND	0.05	0.03	0.1	Pass
Acephate	ND	0.05	0.03	0.1	Pass
Acequinocyl	ND	0.05	0.03	0.1	Pass
Acetamiprid	ND	0.05	0.03	0.1	Pass
Azoxystrobin	ND	0.05	0.03	0.1	Pass
Bifenazate	ND	0.05	0.03	0.1	Pass
Bifenthrin	ND	0.25	0.1	3	Pass
Boscalid	ND	0.05	0.03	0.1	Pass
Captan	ND	0.35	0.2	0.7	Pass
Carbaryl	ND	0.05	0.03	0.5	Pass
Chlorantraniliprole	ND	0.05	0.03	10	Pass
Clofentezine	ND	0.05	0.03	0.1	Pass
Cyfluthrin	ND	0.35	0.25	2	Pass
Cypermethrin	ND	0.35	0.2	1	Pass
Diazinon	ND	0.05	0.03	0.1	Pass
Dimethomorph	ND	0.05	0.03	2	Pass
Etoxazole	ND	0.05	0.03	0.1	Pass
Fenhexamid	ND	0.05	0.03	0.1	Pass
Fenpyroximate	ND	0.05	0.03	0.1	Pass
Flonicamid	ND	0.05	0.03	0.1	Pass
Fludioxonil	ND	0.05	0.03	0.1	Pass
Hexythiazox	ND	0.05	0.03	0.1	Pass
Imidacloprid	ND	0.35	0.1	5	Pass
Kresoxim Methyl	ND	0.05	0.03	0.1	Pass
Malathion	ND	0.05	0.03	0.5	Pass
Metalaxyl	ND	0.05	0.03	2	Pass
Methomyl	ND	0.05	0.03	1	Pass
Myclobutanil	ND	0.05	0.03	0.1	Pass
Naled	ND	0.1	0.05	0.1	Pass
Oxamyl	ND	0.2	0.1	0.5	Pass
Pentachloronitrobenzene	ND	0.1	0.05	0.1	Pass
Permethrin	ND	0.25	0.1	0.5	Pass
Phosmet	ND	0.05	0.03	0.1	Pass
Piperonyl Butoxide	ND	0.25	0.1	3	Pass
Prallethrin	ND	0.05	0.03	0.1	Pass
Propiconazole	ND	0.05	0.03	0.1	Pass
Pyrethrins	ND	0.25	0.1	0.5	Pass
Pyridaben	ND	0.05	0.03	0.1	Pass
Spinetoram	ND	0.05	0.03	0.1	Pass
Spinosad	ND	0.05	0.03	0.1	Pass
Spiromesifen	ND	0.05	0.03	0.1	Pass
Spirotetramat	ND	0.05	0.03	0.1	Pass
Tebuconazole	ND	0.05	0.03	0.1	Pass
Thiamethoxam	ND	0.25	0.1	5	Pass
Trifloxystrobin	ND	0.05	0.03	0.1	Pass

Compliance samples are required to undergo a series of **safety tests** to ensure the products are safe to consume.

Limit: Action limits set by the BCC for all cannabis products sold in California. Action limits are recorded as micrograms per gram (μg/g), or parts per million.

If an action limit for an analyte is not displayed, such as those for Category 1 Pesticides, the pass/fail is determined by whether the analyte is detect/non-detect. Limits may vary by sample matrix.

Status: "Pass" of "Fail" per limits set by the BCC.

Types of Safety Tests Required for Compliance

Residual Solvent Analysis: Tests for 20 solvents commonly used in the manufacturing process of cannabis products (infused prerolls, concentrates, vape cartridges, oils, tinctures, topicals, edibles, etc) per action limits set by the BCC (not required for flower).

Heavy Metal Screening: Tests for arsenic, cadmium, mercury, and lead.

Microbiological Screening: Tests for shiga toxin-producing E.Coli and Salmonella SPP. Inhalable products are also required to be tested for 4 strains of Aspergillus. The limits for microbials in cannabis products are "detect/non-detect".

Mycotoxins: Tests for 5 naturally occurring toxins produced by certain fungi.

Chemical Residue Screening (Pesticides): Tests for 66 pesticides determined to be dangerous for consumption. Category 1 Pesticide limits are "detect/ non-detect".

Foreign Materials: Product is visually inspected for the presence of any filthy, putrid, or decomposing substance such as hair, insects, excreta, etc. Results are "Pass/Fail" and are displayed in the Analysis Summary.