kaycha© LABS

*Trusted Science. Reliable Results.*

# HEMP TESTING

| Recommended Services Offered | | Flower and Trim | Concentrates Keif/Hash | Edibles & Tinctures | Concentrates (all others) | Topicals & Transdermal |
|---|---|---|---|---|---|---|
| **Cannabinoid Quantification**<br>THCV, CBD, CBN, THCa, CBDa, CBG, D9-THC, D8-THC, CBC, CBDV, CBGa | $50 | X | X | X | X | X |
| **Pesticide Analysis**<br>Quantitative analysis for 62 of the most commonly used pesticides in the cannabis industry | $115 | X | X | X | X | X |
| **Heavy Metal Analysis**<br>Arsenic, Cadmium, Lead and Mercury | $95 | X | X | X | X | X |
| **Microbial Testing**<br>Salmonella, E.coli, Aspergillus Fumigatus, A.Niger, A.Terreus, A.Flavus | $95 | X | X | X | X | X |
| **Fungal Quantitative Analysis**<br>Total Yeast & Mold. CFU per gram. | $80 | | | | | |
| **Mycotoxins Analysis**<br>Quantitate Aflatoxins (B1, B2, G1 & G2), and Ochratoxin A. | $45 | X | X | X | X | X |
| **Bacterial Quantitative Testing**<br>Total Aerobic Bacteria (TAB), Bile-Tolerant Gram Negative Bacteria (BTGN), Total Enterobacteriaceae (ENT) Includes Total Coliform. CFU per gram | $80 | | | | | |
| **Filth and Foreign Material Inspection**<br>Hair, insects, feces, packaging contaminants, and manufacturing waste and by-products. | $20 | X | X | X | X | X |
| **Residual Solvents Analysis**<br>Quantitative analysis of *21* Solvents commonly used to extract cannabinoids. | $95 | | | X | X | X |
| **Water Activity Analysis**<br>Maximum water activity | $20 | | | | | |
| **Moisture Testing**<br>Moisture content as a percentage of dry weight | $20 | | | | | |
| **Terpene Analysis**<br>Quantitative analysis of 39 major terpenes | $95 | | | | | |
| **Label Claim Verification**<br>Certify label claims are consistent with testing results | $20 | | | | | |
| **Homogeneity Testing**<br>10 tests for total THC/CBD to ensure homogeneous batch. "Passes" homogeneity testing if the relative standard deviation is less than 15% of average. | $295 | | | | | |
| Packages<br>**Complete Package (48 Hr results)**<br>All testing indicated by X | | $499 | $499 | $499 | $499 | $499 |
| **Complete Package (4 Day results)**<br>All testing indicated by X | | $399 | $399 | $399 | $399 | $399 |
| **Complete Package (7 Day results)**<br>All testing indicated by X | | $299 | $299 | $299 | $299 | $299 |

* Tests included in "Full Panel" testing are indicated by "X" based on sample type


**502-444-2044**

**ky.yourcoa.com**

# TESTING SERVICES AND PRICING

**Quotation For:** Midwest Hemp Council Members and Purdue Hemp Extension Farmers
**Date:** April 22, 2020

## Individual or Ad-hoc Analysis: *15% discount applied to List Price*

| TEST | | LIST PRICE | YOUR PRICE |
|---|---|---|---|
| Cannabinoids | 18 analytes | $ 75 | **$ 63.75** |
| Moisture (incl. w/ floral samples) | | $ 25 | **$ 21.25** |
| Pesticides | 67 analytes | $ 160 | **$ 136** |
| Heavy Metals | 4 elements | $ 100 | **$ 85** |
| Mycotoxins | 5 toxins | $ 75 | **$ 63.75** |
| Microbials | 4 microbes | $ 65 | **$ 55.25** |
| Terpenes | 42 analytes | $ 70 | **$ 59.50** |
| Residual Solvents | 46 solvents | $ 80 | **$ 68** |

**Special rates available for volume and long-term contracts.*

## Packaged Analysis:

| TEST | LIST PRICE | YOUR PRICE |
|---|---|---|
| Cannabinoids, Moisture, Pesticides, Heavy Metals, Mycotoxins, Microbials | $475 | **$403.75** |
| Terpene Add-on | Add $70 | **Add $59.50** |
| Residual Solvents Add-on | Add $80 | **Add $68** |

***Special rates available for volume and long-term contracts.*

## Other Services: *Pricing varies on scope of service(s) requested. Contact KCA Staff for pricing quote.*

### Farming and Crop Lifecycle Analysis
- Grow Season Monitoring
- Biomass Testing
- Plant Gender Genetics

### Customized Research
- Research Design and Consultation
- Method Development and Validation
- Pharmacokinetic Analysis
- Shelf-life Suitability Study

### Sample Management
- 3rd Party Sample Collection
- Chain-Of-Custody Procedures
- Sample Courier Services

***Pricing valid through 31 December 2020

KCA Laboratories
232 North Plaza Drive
Nicholasville KY, 40356

Subject to KCA Laboratories Terms and Conditions

ROCK RIVER LABORATORY, INC.
AGRICULTURAL ANALYSIS

# HEMP ANALYSIS SERVICES AND PRICING

| POTENCY ANALYSIS | |
|---|---|
| **Cannabinoid Profile**: Concentrations of CBC, CBD, CBG, CBN, CBDA, CBGA, CBDV, CBDVA, Delta 9-THC, Delta 8-THC, THCA-A, THCV and Moisture…… | $75.00 |

| AGRONOMIC ANALYSIS | |
|---|---|
| **Plant Tissue Testing**: Nitrogen, Phosphorus, Potassium, Calcium, Sulfur, Boron, Manganese, Zinc, Copper, Iron, Aluminum, & Sodium…… | $30.00 |
| **Complete Soil Analysis:** pH, Buffer pH, Organic Matter, Phosphorus, Potassium, Calcium, Magnesium, Boron, Zinc, Sulfur, Manganese, Copper, Iron, Soluble Salts, Estimated CEC, & Percent Base Saturation…… | $16.00 |
| **Plant Tissue Plus:** Plant Tissue Test paired with Complete Soil Test to create a comprehensive view of the soil and plant nutrient relationship…… | $46.00 |
| **Soil Pesticide Screen:** Acetochlor, Alachlor, Atrazine, Butylate, Deethylatrazine, Deisopropylatrazine, Dimethenamid, Chlorpyrifos, Cyanazine, S-Ethyl Dipropylthiocarbamate (EPTC), Metolachlor, Metribuzin, Pendimethalin, Prometon, Propazine, Simazine, & Trifluralin…… | $200.00 |

| SOIL SAMPLING SERVICES | |
|---|---|
| **2.5 Acre Grid Soil Sampling**…… | $3.99/ac |
| **5.0 Acres Grid Soil Sampling**…… | $2.99/ac |

**Please note-- payment in full required at time of sample submission*

PLEASE REFERENCE THE FOLLOWING PAGE FOR SHIPPING REQUIREMENTS.

# SHIPPING GUIDELINES FOR INDUSTRIAL HEMP

*Acceptance Criteria for Cannabidiol (CBD) Oil and Products Containing CBD" released by USPS on March 4, 2019:*

Any mailer who presents industrial hemp for mailing must demonstrate that the package contents are compliant with the Agricultural Act of 2014 by providing the following documentation:

1. A signed self-certification statement, subject to the False Statements Act (18 U.S.C. § 1001). Statements must be printed on the mailer's own letterhead, and must include the text, "*I certify that all information contained in this letter and supporting documents are accurate, truthful, and complete. I understand that anyone who furnishes false or misleading information or omits information relating to this certification may be subject to criminal and/or civil penalties, including fines and imprisonment."*

2. The industrial hemp producer possesses a license issued by the Department of Agriculture, for the state where the Post office/ acceptance unit is located, which includes documentation identifying the producer by name and showing the mailer is authorized by the registered producer to market products manufactured by that producer.

3. The industrial hemp, or products produced from industrial hemp, contains a delta-9 THC concentration of not more than 0.3% on a dry weight basis.

Mailers must provide, at a minimum, a signed statement on their own letterhead, a document showing the mailer has authorization to market CBD products by the entity registered or licensed by the State."

Rock River Laboratory retains copies of the above-described documentation it until the expiration date shown on the state Department of Agriculture license.

Ship samples to: Rock River Laboratory, PO Box 169, Watertown, WI 53094. Samples will NOT be accepted at any other Rock River Laboratory location.

Mailers may use the following certification statement template on personal letterhead:

*To Postal Handler:*

*This shipment contains laboratory samples of hemp products. I attest these products have been produced and shipped in accordance with the Agricultural Act of 2014 ("Act"), and the associated advisory "Acceptance Criteria for Cannabidiol (CBD) Oil and Products Containing CBD" released by USPS on March 4, 2019. These samples are being delivered for testing purposes to a laboratory that is accredited by its State to receive, store, and test hemp and CBD products.*

***I certify that all information furnished in this letter and supporting documents are accurate, truthful, and complete. I understand that anyone who furnishes false or misleading information or omits information relating to this certification may be subject to criminal and/or civil penalties, including fines and imprisonment.***

*Sincerely,*

*<Print and sign mailer name>*