

Sample Received: 5/22/2017

Report Date: 5/24/2017

EDIBLE OIL (SATIVA) - CONCENTRATE

Residual Solvent Test Report

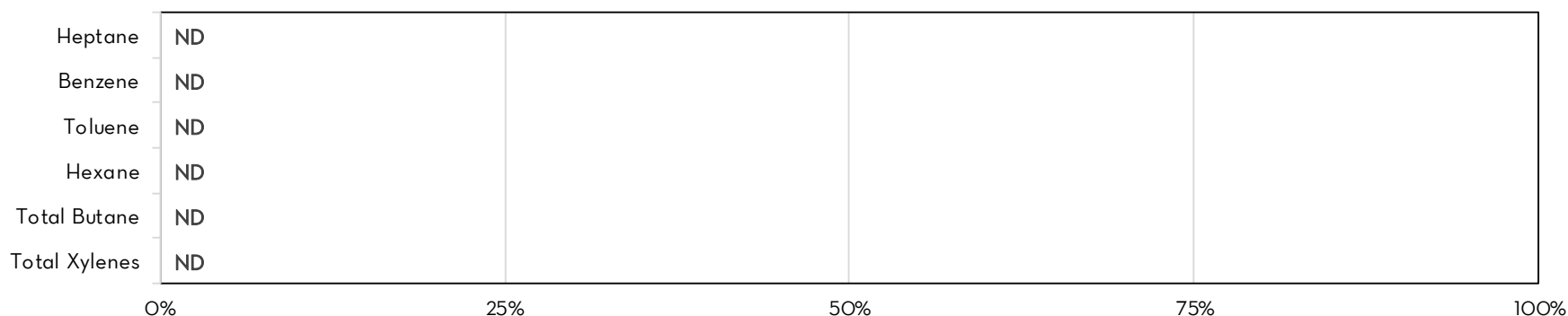
METRC No. 1A40003126874AF000024427

Item Type: Kitchen Oil

Sample **ER605**

Item Notes:

PERCENT OF REGULATED LIMIT



isobutane	n-butane	total butanes	heptane	benzene	toluene	hexane	o-xylene	m,p-xylene	total xylenes
ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Limit / ppm		5000	5000	2	890	290			2170
% of limit		ND	ND	ND	ND	ND			ND

ND = not detected. Values below the lower limit of quantitation (LLOQ) are outside the range of accuracy and are shown as <LLOQ. Values above the upper limit of quantitation (ULOQ) are outside the range of accuracy and are shown as >ULOQ.

Limits of quantitation for isobutane and butane = 647.5 - 12950.0 ppm; heptane = 141.35 - 14135.0 ppm; benzene = 0.65 - 65 ppm, hexane = 34.45 - 3445.0 ppm, toluene = 46.45 - 4645.0 ppm and xylenes = 130.9 - 13090.0 ppm.



RESIDUAL SOLVENT TESTING

The Colorado Department of Revenue - Marijuana Enforcement Division (MED) currently plans to require residual solvent analysis of cannabis extracts and concentrates using solvents for cannabinoid extraction. This residual solvent testing aims to ensure consumer safety in cannabis concentrates from harmful health effects associated with these solvents.

The residual solvent limits enforced by the MED as of 01/01/2017 are as follows:

Benzene	less than 2.0 parts-per-million (ppm)
Toluene	less than 890.0 ppm
Hexane	less than 290.0 ppm
Total Xylenes	less than 2170.0 ppm
Total Butanes	less than 5000.0 ppm
Heptanes	less than 5000.0 ppm

RM3 LABS RESIDUAL SOLVENT TESTING METHODS

At Rm3 Labs we use a testing methodology known as Headspace Gas-Chromatography with Flame Ionization Detection, or headspace GC-FID. This method is widely used in the environmental and pharmaceutical industries to analyze for product or environmental contamination. For each test, the client provides us a small sample of the product. We heat the sample in an airtight vial to vaporize the residual solvents, sample the headspace in the vial and inject this headspace sample into the gas chromatograph for chemical analysis. In analyzing sample headspace, we screen out various matrix interferences present in the concentrate.

THE LIMITATIONS OF OUR TEST METHODS

We do not test an entire "batch" of product; we only test the sample provided by the client. When testing cannabis concentrates and extracts, we ask for as representative a sample as possible; however, it is possible that the product received by a patient may be materially different from the sample we've tested.

Rm3 Labs tests for residual solvents specified in the MED contaminant testing regulations only and therefore other residual solvents may be present other than the solvents listed in this report.

There are currently no established protocols for marijuana testing in the U.S. As a result, each lab uses its own procedures, and results from different labs may not be directly comparable.

Results of our tests, and this report, may be used or displayed only by the client and only in connection with the batch of product from which the test sample was taken. By submitting a sample for analysis, the client has represented that product from which the sample has been taken is being held by the client in full compliance with Colorado state and local medical marijuana laws, and such product or any product made therefrom will only be offered for sale in compliance with such laws.