

## Certificate of Analysis

### Eurofins BioDiagnostics, Inc.

507 Highland Drive  
River Falls Wisconsin 54022 United States

<b>Sample Name:</b>	<b>FS1500RES_Tincture</b>	<b>Eurofins Sample:</b>	<b>8260170</b>
<b>Project ID</b>	EUROFINS-20190319-0145	<b>Receipt Date</b>	19-Mar-2019
<b>PO Number</b>	CVD	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>		<b>Login Date</b>	19-Mar-2019
<b>Description</b>	119051481		

Analysis	LOQ	Limit	Result	Pass/Fail
<b>Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents)</b>				
2-Methoxyethanol	50 ppm	50 ppm	<50.0 ppm	Pass
2-Ethoxyethanol	160 ppm	160 ppm	<160 ppm	Pass
N,N-Dimethylformamide	880 ppm	880 ppm	<880 ppm	Pass
N,N-Dimethylacetamide	1090 ppm	1090 ppm	<1090 ppm	Pass
Dimethyl Sulfoxide	250 ppm	250 ppm	<250 ppm	Pass
Ethylene Glycol	620 ppm	620 ppm	<620 ppm	Pass
N-Methylpyrrolidone	530 ppm	530 ppm	<530 ppm	Pass
Formamide	220 ppm	220 ppm	<220 ppm	Pass
Sulfolane	160 ppm	160 ppm	<160 ppm	Pass
<b>Residual Solvents - Class 3, Acids Only</b>				
Acetic Acid	200 ppm		<200 ppm	
Formic Acid	200 ppm		<200 ppm	

### Method References

### Testing Location

#### Residual Solvents - Class 2 Mix C, Class 3 DMSO (Nonvolatile Solvents) (USPR\_DI\_S)

Food Integrity Innovation-Madison

United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2016). (Modified).

#### Residual Solvents - Class 3, Acids Only (USPR\_ACD\_S)

Food Integrity Innovation-Madison

[1] United States Pharmacopeia, 39th Rev. - National Formulary 34th Ed., Method <467>, USP Convention, Inc., Rockville, MD (2015). (Modified)

[2] Zhou, D., Hou, Q., Liu, W., Ren, X., "Rapid determination of formic and acetic acids in biomass hydrosylate by headspace gas chromatography," Journal of Industrial and Engineering Chemistry, 47:281-287 (2017).

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**Testing Location(s)****Released on Behalf of Eurofins by****Food Integrity Innovation-Madison****Edward Ladwig - Director**

Eurofins Food Chemistry Testing US, Inc.

3301 Kinsman Blvd

Madison WI 53704

800-675-8375

**Eurofins Food Integrity and Innovation accepts all liability for work conducted as of 01 Aug 2018.**

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