

### Certificate of Analysis

Lief Organics LLC

<b>Sample Name:</b>	<b>Ginseng Extract (27-30 percent Saponins 20 percent Ginsenosides) Powder</b>	<b>Eurofins Sample:</b>	<b>8952510</b>
<b>Project ID</b>	LIEF_ORGAN-20191024-0018	<b>Receipt Date</b>	24-Oct-2019
<b>PO Number</b>	10222019 A	<b>Receipt Condition</b>	Ambient temperature
<b>Sample Serving Size</b>		<b>Login Date</b>	24-Oct-2019
<b>Description</b>	100-2240D R18003902	<b>Date Started</b>	28-Oct-2019

**Analysis**

**Result**

**Botanical Identification - High Performance Thin-Layer Chromatography**

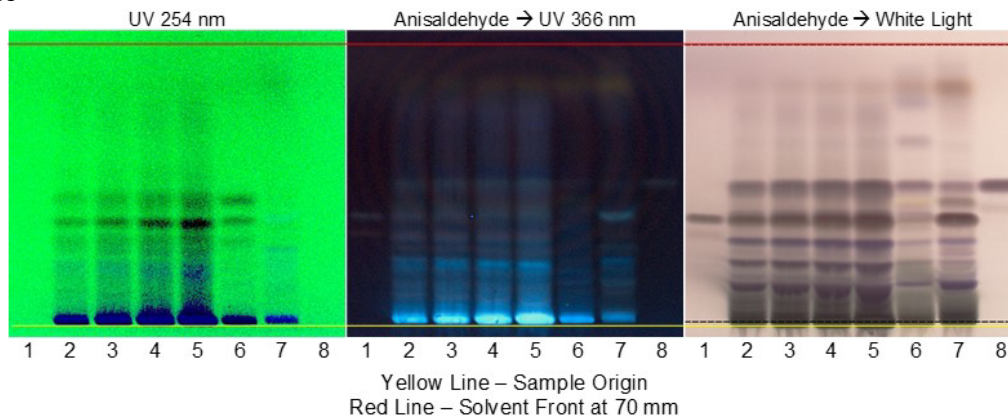
Plant Part

Root

Comments and Conclusions

Meets method requirements for botanical identity of Panax ginseng

HPTLC Images



Lane	Amount Applied	ID
1	4 µL	Ginsenoside Re
2	2 µL	Ginseng Extract (27-30 percent Saponins 20 percent Ginsenosides) Powder Sample 8952510
3	3 µL	Ginseng Extract (27-30 percent Saponins 20 percent Ginsenosides) Powder Sample 8952510
4	4 µL	Ginseng Extract (27-30 percent Saponins 20 percent Ginsenosides) Powder Sample 8952510
5	5 µL	Ginseng Extract (27-30 percent Saponins 20 percent Ginsenosides) Powder Sample 8952510
6	4 µL	<i>Panax ginseng</i> Reference Extract
7	4 µL	<i>Pana quinquefolius</i> Reference Extract
8	4 µL	Ginsenoside Rg1

**Method References**

**Testing Location**

Botanical Identification - High Performance Thin-Layer Chromatography ( B\_HPTLC\_S)

Food Integrity Innovation-Boulder

CDXA-TLCM-030-03: Client extraction

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**Testing Location(s)****Released on Behalf of Eurofins by****Food Integrity Innovation-Boulder****Ian Laessig - Manager**

Eurofins Food Chemistry Testing US, Inc.  
2830 Wilderness Pl  
Boulder CO 80301  
800-675-8375



AT-1816

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