



Spectrix Analytical Services, LLC

410 Sackett Point Road, Bldg 20, North Haven, CT 06473 ♦Phone:203-287-5674 ♦Fax:203-287-5497 ♦www.spectrixservices.com

Title: Identity by UPLC-MS

Date: 29OCT2020

Analyst: Jodi Soufrine/Jianming Tao

Submitter: Healthy Drops, www.healthydrops.net, phone number: 321 223 6058

Sample Identification:

Artemisinin (off-white powder). Received on 28OCT2020.

Reference standards used: Artemisinin from TCI.

Report Prepared By: Jodi Soufrine/Jianming Tao

Report Reviewed By: Jianming Tao

Report Summary:

Sample ID	Identity Confirmation: does the sample contain active ingredient as stated	Purity, % (UPLC-UV)
Artemisinin	Yes	97.9

Experimental Details:

Method details

Column: ACQUITY UPLC® BEH C18 1.7µm 2.1 x 50mm; (at 35°C)

Mobile phase A: Water with 0.1% Trifluoroacetic acid

Mobile phase B: Acetonitrile

Flow: 0.8mL/min

Injection volume: 1.5µL

Gradient

Hold 5% B 0 – 0.25min

5 - 95% B 0.25 – 7.75min

Hold 95% B 7.75 – 8.25min

95 – 5% B 8.25 – 8.35min

Hold 5% B 8.35 – 10min

UV detection

Artemisinin: 199nm

Mass detection

Positive and negative scan mass: 30-1250 Da

Probe Temp.: 600°C

Capillary: ±0.8kV

Cone Voltage: ±15V

Spectrix Analytical Services: UPLC Reports 2020/

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