

Certificate of Analysis

Certificate number: CoA-22-00-23

Work Order: WO-22-00-06

Customer: Pharma Marine, 6280 Sjøvik, Norway
Product: PAO GOLD BLEND
Lot number: MPF9210222 (15.02.2022)
Expiry date: Nd
Product description: oil in bottle
Serving: Nd
Storage conditions: 8.0 °C

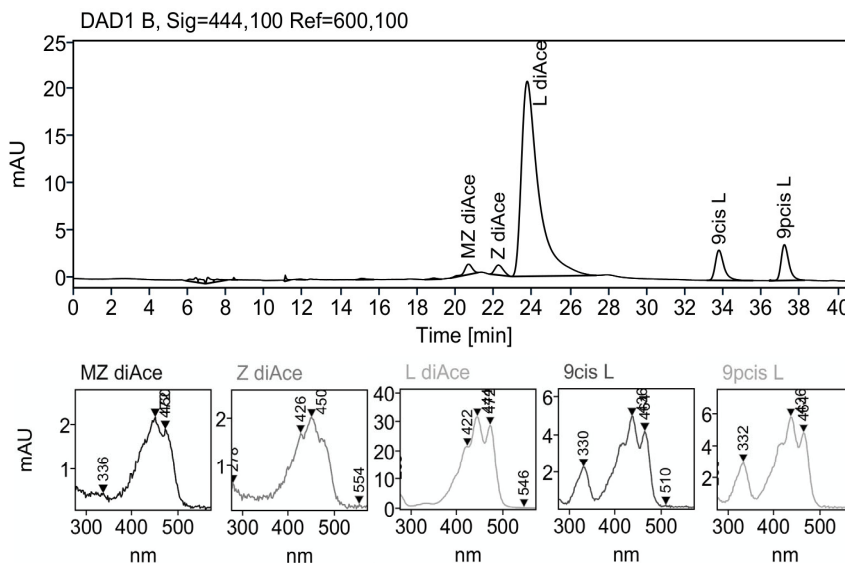
Received: 2022/02/25
Analysed: 2022/03/07
Reported: 2022/03/17
Sampler: Customer
Test: 3 oil spl.
Test temp.: 20 °C

Analyte	Method	Declared	Measured*	Heterogen. (RSD, %)	Confidence (%)	Conformance
		mg/9.2 g	mg/9.2 g ± U95%			
Meso-zeaxanthin	AM-01.1-HPLC-DAD	Nd	0.48 ± 0.15	16.27	-	-
Zeaxanthin	AM-01.1-HPLC-DAD	Nd	0.33 ± 0.04	5.84	-	-
Lutein	AM-01.1-HPLC-DAD	12	9.91 ± 0.33	1.72	-	-
9-cis Lutein	AM-01.1-HPLC-DAD	Nd	0.81 ± 0.06	3.73	-	-
9p-cis Lutein	AM-01.1-HPLC-DAD	Nd	0.89 ± 0.07	4.03	-	-
Lutein + cis-Lutein	AM-01.1-HPLC-DAD	12	11.61	-	-	Fail

* The reported expanded measurement uncertainty (U95%) is stated as the combined standard measurement uncertainty multiplied by the coverage factor k = 1.96 such that the coverage probability corresponds to approx

Quality Control Sample: MicroMic 15%; Lot 2010N942076; Analyte: Lutein diAce (150 mg/g)					
Quality Control	Method	Specs. #	Raw value	Value	Result
Within-run Accuracy	AM-01.1-HPLC-DAD	85 - 115 %	Spec: 116.1 ± 3.2; HPLC: 121.6 ± 2.3	108.80%	Conform
Within-run Precision	AM-01.1-HPLC-DAD	RSD < 15 %	-	1.27%	Conform

As defined by the Guideline On Bioanalytical Method Validation (EMA, European Medicines Agency) (EMA/CHMP/EWP/192217/2009 Rev. 1 Corr. 2**), authored by the Committee for Medicinal Products for Human Use (CHMP) 21 July 2011.



Disclaimers: The results in this certificate relate only to the samples described above. This report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report void.



Certificate of Analysis

Supplement Certified
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Product pictures




Comments

Total lutein is the sum of Lutein plus 9-cis and 9pcis Lutein.

Analysis performed by:

Tommy Power, Analyst



Tommy Power (Mar 17, 2022 13:43 GMT)

Report approved by:

Dr Alfonso Prado-Cabrero, Laboratory manager



Alfonso Prado-Cabrero (Mar 16, 2022 17:31 GMT)

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CoA-22-00-23

Final Audit Report

2022-03-17

Created:	2022-03-16
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