



SUPPLEMENT CERTIFIED  
BY NRCI WATERFORD IRELAND

# Certificate of Analysis

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**Certificate number:** CoA-21-00-76

**Requested by:** CTV National News  
9 Channel Nine Court  
M1S4B5 Scarborough, Ontario (Canada)

**Date received:** 2021-05-12  
**Data analysed:** 2021-06-15  
**Data reported:** 2021-06-21

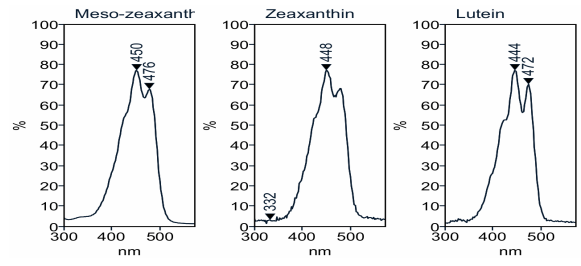
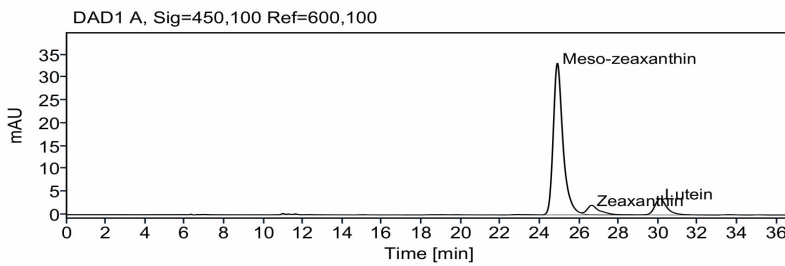
**Product name:** Vision Essence  
**Company:** Vision Essence, Mississauga, ON (Canada)  
**Lot number:** M2000280/1

**Expiry date:** 2021/07  
**Serving size:** 1/Day  
**Formulation:** Powder

Analyte	Declared mg/capsule	Measured mg/capsule $\pm$ U <sub>95%</sub>	Homogeneity (RSD)	Confidence (%)	Method	Conformance
Meso-zeaxanthin	10	8.98 $\pm$ 0.89	5.04	98.7	AM-LCD-1807	Fail
Zeaxanthin	2	0.92 $\pm$ 0.09	4.93	100.0	AM-LCD-1807	Fail
Lutein	10	1.37 $\pm$ 0.13	4.96	100.0	AM-LCD-1807	Fail
Total carotenoids	22	11.28	-	-	-	Fail

The reported expanded measurement uncertainty (U<sub>95%</sub>) is stated as the combined standard measurement uncertainty multiplied by the coverage factor  $k = 1.96$  such that the coverage probability corresponds to approximately 95%

Quality control	Specification	Raw value	Value	Method	Result
Instrument accuracy	85 - 115 %	18.45 (Spect.), 18.61 (LC) mg/cap	99.16 %	AM-LCD-2004	Conform
Intra-day precision	RSD < 15 %	-	0.96 %	AM-LCD-2004	Conform
Storage temperature	-	24.92 $\pm$ 1.08 °C	-	AM-THD-2010	-
Storage humidity	-	38.53 $\pm$ 6.17 %	-	AM-THD-2010	-



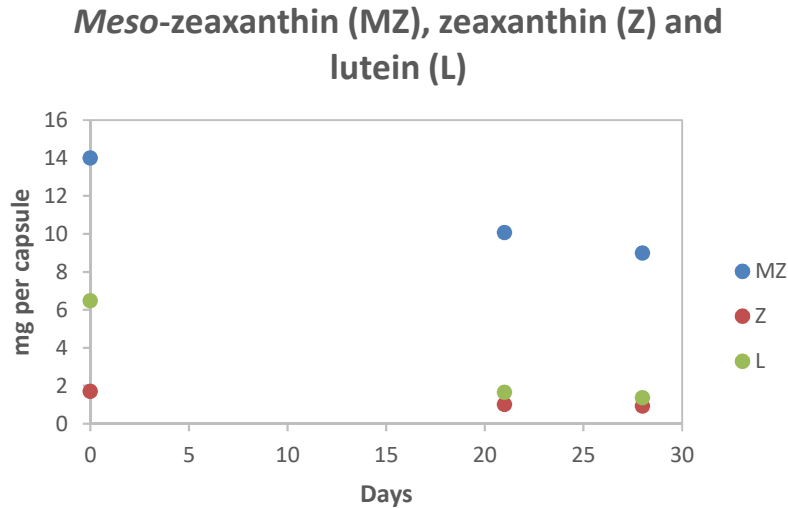
History	2020-05-18	2021-06-08	2021-06-15
Analyte/Report ID	CoA-21-00-64	CoA-21-00-70	CoA-21-00-75
Meso-zeaxanthin	13.99 $\pm$ 3.06	10.06 $\pm$ 0.61	8.98 $\pm$ 0.89
Zeaxanthin	1.71 $\pm$ 0.24	1.02 $\pm$ 0.05	0.92 $\pm$ 0.09
Lutein	6.47 $\pm$ 1.31	1.66 $\pm$ 0.09	1.37 $\pm$ 0.13
Total carotenoids	22.17	12.74	11.28



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## Comments



The present analysis is the third we carry out on Vision Essence with Lot number M2000280/1. This analysis has been performed four weeks after opening the bottle.

In the graph above, we have represented the concentration of meso-zeaxanthin, zeaxanthin and lutein per capsule at time zero, week three and week four after opening the product. The rate of degradation of each of these carotenoids in this product after opening can be observed.

We want to note that the analyzed bottle contains 90 capsules, a supply for three months of treatment. After four weeks of opening the bottle, the total amount of carotenoids measured is half of that measured in the first analysis (11.28 mg of total carotenoids in week four versus 22.17 mg of total carotenoids in the first analysis). The conservation conditions of the product are 25 °C and 35 - 40 % humidity.

In our previous analyses of this product, we concluded that Vision Essence with Lot number M2000280/1 fails to comply with Supplement Certified criteria and also fails to comply with the Quality of Natural Health Products Guide by the Natural and Non-prescription Health Products Directorate (NNHPD), Health Canada (May 1st, 2015).



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**Disclaimers and Terms:** The testing results in this certificate relate only to the samples described above. Unless otherwise stated, all results are expressed on an as received basis. This report shall not be altered, modified, supplemented or abstracted in any manner. Any violation of these conditions renders the report and its results void.

Supplement Certified, performed by the Nutrition Research Centre Ireland, means that the supplement product analysed has undergone independent 3rd party analysis to confirm that each active ingredient (carotenoid and/or omega-3 fatty acid) present in the dietary supplement matches 100% of quantity label claim, including expanded uncertainty of 95% (U95%). Also, homogeneity of each measurand should have a relative standard deviation (RSD) below 10%.

This research was conducted at the NRCI following a request by CTV news Canada. This work was performed as part of a research study and not a paid service. The products tested were provided by CTV news Canada. No member of the NRCI received any payment for conducting this work. The NRCI does not permit the use of its name, logos or branding to any third party without pre-written agreement.

**Analysis performed by: Tommy Power**

**Approved by: Dr Alfonso Prado-Cabrero**

  
Alfonso Prado-Cabrero (Jun 21, 2021 17:28 GMT+1)