

## Test Report

Report no : VI-R2021286S-1C(ENG)  
Date : 2021-08-13

Sample Number : VI-2021286S-1  
Client Name : TIMELESS ETERNAL PTE LTD  
Client Address : 235 Jalan Besar,#04-01,Singapore 208909  
Sample Receiving Date : 2021.06.29  
Testing Period : 2021.07.28 – 08.11  
Sample Name : Timeless Forever NMN PURE9000  
Sample Condition : Sample was received and stored at ambient temperature

### Test Requested

Anti-ROS Efficacy Test: Zebrafish Embryos ROS Elimination Rate Test



### General Comments:

1. Test method was designed referring to OECD TG 236.
2. Scientific basis: J Dermatol Sci. 2010, 58:85-90; Free Radic Biol Med. 2013, 65:89-101; Nat Rev Drug Discov. 2015, 14: 721-721; Chemosphere. 2017, 168:707-715.
3. Sample was pretreated according to our in-house method VI\_SOP\_002 as functional food products before test.

**Test Results:** Please refer to next page

### Approved signatory:


Dr. Xueping Chen

Chief Technology Officer, UK & EU Registered Toxicologist, Chartered Biologist

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VITARGENT (INTERNATIONAL) BIOTECHNOLOGY LIMITED

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### Test Results:

Category: Functional food

<b>Sample Description</b>		Timeless Forever NMN PURE9000
<b>Sample ID</b>		VI-2021286S-1
<b>Test</b>	<b>Concentration(g/L)</b>	<b>Result</b>
ROS <sup>(1)</sup> elimination rate <sup>(2)</sup> in zebrafish embryos	0.002	22% ( <i>p</i> = 0.00059)
Anti-ROS Efficacy <sup>(3)</sup>	Significant	

### Remarks:

1. ROS: Reactive oxygen species.
2. ROS elimination rate in zebrafish embryo = [(the level of ROS in normal zebrafish embryos - the level of ROS in zebrafish embryos treated with testing sample) × 100 / the level of ROS in normal zebrafish embryos] %.
3. *p* value is obtained from the T-test between the level of ROS in zebrafish embryos treated with testing sample and the level of ROS in normal zebrafish embryos. Generally, *p* < 0.05 has statistically significant difference.
4. Based on the ROS elimination rate in zebrafish embryos, the statistical difference (*p* value) of the elimination rate and the anti-ROS efficacy database of the same type of product, the anti-ROS efficacy of a testing sample is determined as Significant (elimination rate is positive value and *p* < 0.05) or Insignificant (elimination rate is negative value or *p* ≥ 0.05).
5. Refer to Appendix 1 for representative photos of Anti-ROS efficacy test results.
6. The test results relate only to the submitted test item with the sample number and receiving date specified on the previous page.

-- End of Test Report --

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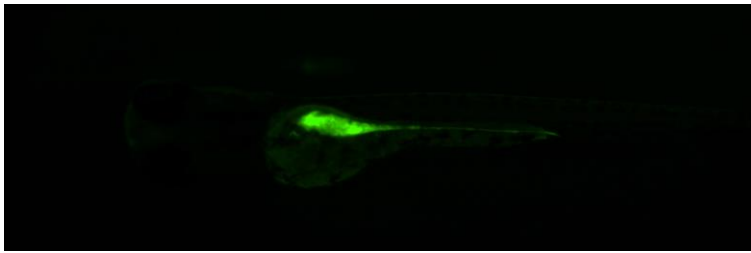
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### Appendix 1

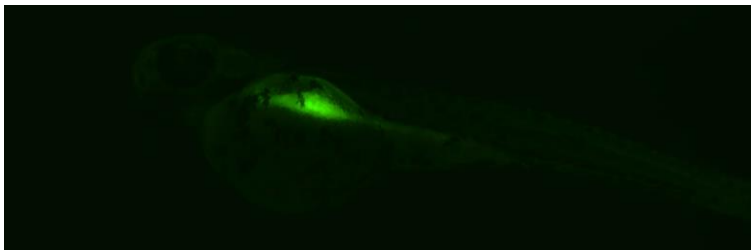
#### Representative photos of Anti-ROS Efficacy Test results

Non-significant Anti-ROS efficacy (0% ROS elimination rate)



\*Green fluorescence labels reactive oxygen species (ROS) in zebrafish embryos.

Significant Anti-ROS efficacy (18% ROS elimination rate)



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VI-2021286S-1 Timeless Forever NMN PURE9000 (22% ROS elimination rate)



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