

Test Report

Testing of products for use in contact with drinking water

Date of issue: 11-04-2024

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Castco LRN: 240201-2683

Details as supplied by customer

Name of Customer : Puriodic Global Limited
Address : Rm K, Unit 22-23, 11/F, Goldfield Industrial Centre, NO.1 Sui Wo Road, Fo Tan, Shatin, Hong Kong
Job Title : Drinking Water Dispensers & Filters (WSD voluntary labelling scheme)
Customer's Ref. No. : --
Contract No. : --

Sample details as supplied by customer

Date of Sample Received : 09-01-2024, 11-01-2024
Test Period : 16-01-2024 to 15-03-2024
Sample Description : Sensor Water dispenser 感應式飲水機
Brand Name : Puriodic
Type : --
Model : DWM-3100
Sample ID : --
Size : 450 × 475 × 985
Manufacturer : ZHEJIANG NOWTECH ELECTRICAL APPLIANCES CO. LTD
Water inlet size : --
Country/region of origin : : China

Test Method(s):

- 1) AS/NZS 4020:2018 Appendix C and I - Taste and Extraction procedure for end-of-line fittings
- 2) AS/NZS 4020:2018 Appendix D and I - Appearance and Extraction procedure for end-of-line fittings
- 3) AS/NZS 4020:2018 Appendix E and I - Growth of aquatic micro-organisms and Extraction procedure for end-of-line fittings
- 4) AS/NZS 4020:2018 Appendix F and I - Cytotoxic activity and Extraction procedure for end-of-line fittings
- 5) AS/NZS 4020:2018 Appendix H and I - Metals and Extraction procedure for end-of-line fittings

Remarks:

- 1 Test results only relate to the specimen tested and showed on Appendix I.
- 2 In-the-product exposure for test items 1, 2, 4 and 5. Immersion exposure for test item 3.
- 3 The sample/s mentioned in this report is/are submitted/supplied/manufactured by the Client. Castco therefore assumes no responsibility for the accuracy of information on the brand name, origin of manufacture, consignment or any information supplied.
- 4 Page no. 1A of this test report supersedes page 1 of the previous test report of LRN 240201-2683 issued on 22-03-2024.
- 5 Refer to the previous test report of LRN 240201-2683, the client's information were revised in this issue due to the supplementary information of the client.

Checked by : _____

Au Kwok Kin
Technical Manager

Certified by : _____

Cheng Chi Fai
Senior Manager

Summary of Results

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Sample Description : Water dispenser 感應式飲水機

Standard	Test	Compliance with AS/NZS 4020:2018, Clause 6 (Cold Water)
AS/NZS 4020:2018 Appendix C	Taste	Pass
AS/NZS 4020:2018 Appendix D	Appearance	Pass
AS/NZS 4020:2018 Appendix E	Growth of aquatic micro-organisms	Pass
AS/NZS 4020:2018 Appendix F	Cytotoxic activity	Pass

Standard	Test	Compliance with HKDWS (Cold Water)
AS/NZS 4020:2018 Appendix H	Metals	Pass

Remarks:

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Test results :

1) Taste

Extraction Temperature : 20°C

Extraction Solution		Result	
		Chlorine-Free Water	Chlorinated Water
1 st Extraction	Taste	Not detected	Not detected
7 th Extraction	Taste	--	--

Remark(s):

1 sample of the product was tested.

2) Appearance

Extraction Temperature : 20 °C

		Result	Requirement of AS/NZS 4020:2018
1 st Extraction	Turbidity (NTU)	< 0.5	< 0.5
	Color (HU)	< 5	< 5
7 th Extraction	Turbidity (NTU)	--	/
	Color (HU)	--	

Remark(s):

1 sample of the product was tested.

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Test results (cont'd) :**3) Growth of Aquatic Micro-Organisms**

Extraction Temperature : 30°C

Surface area range of each component : 1000 to 15000 mm²/L

Volumes of extracts : 3000 mL

Specimens	Result	
	Dissolved oxygen (mg/L)	
	*MDOD	Requirement of AS/NZS 4020:2018
Test Product (Single sample)	0.3	MDOD ≤ 2.4
Glass (Negative reference)	0.0	MDOD = 0.3 ± 0.3
Paraffin wax (Positive reference)	6.3	MDOD = 7.0 ± 1.5

Remark(s): The mean dissolved oxygen concentration of the control was 7.4 mg/L. (AS/NZS 4020:2018 Requirement: 8.0 ± 1.5)

*MDOD = Mean dissolved oxygen difference

1 sample of the product was tested.

4) Cytotoxic activity

Extraction Temperature : 20 °C

Specimens	Result	Remark
Test Product, 24 hr	All cells form a confluent health monolayer	Non-cytotoxic
Test Product, 48 hr	All cells form a confluent health monolayer	Non-cytotoxic
Test Product, 72 hr	All cells form a confluent health monolayer	Non-cytotoxic
Test Reagent Blank	All cells form a confluent health monolayer	Non-cytotoxic
Zinc sulphate (Positive control)	Abnormal cell morphology with cell death	Cytotoxic

Remark(s): 1 sample of the product was tested.

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Test results (cont'd) :

5) Metals

Extraction Temperature : 20 °C

Item	Metal	Test Water Blank (µg/L)	Metal Fitting Blank (µg/L)	Test results (µg/L)				*HKDWS Standard Value (µg/L)
				Sample 1	Sample 1 - Metal Fitting Blank	Sample 2	Sample 2 - Metal Fitting Blank	
1	Boron	<10	<10	<10	<10	<10	<10	≤2400
2	Chromium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	≤50
3	Nickel	<1.0	<1.0	1.0	<1.0	1.8	1.7	≤70
4	Copper	<5.0	<5.0	7.5	7.4	<5.0	<5.0	≤2000
5	Arsenic	<0.70	<0.70	<0.70	<0.70	<0.70	<0.70	≤10
6	Selenium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	≤40
7	Cadmium	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	≤3
8	Antimony	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	≤20
9	Barium	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	≤1300
10	Mercury	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	≤6
11	Lead	<1.0	<1.0	4.1	4.1	1.0	1.0	≤10
12	Uranium	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	≤30

Remark(s): 2 samples of the product were tested.

* HKDWS = Hong Kong Drinking Water Standards

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**Appendix I
(Photo of sample)**

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Sample Description : Water dispenser 感應式飲水機

**Remarks:**

Page no. 1A of the Appendix I supersedes page 1 of the previous Appendix I of LRN 240201-2683 issued on 22-03-2024.

Appendix II

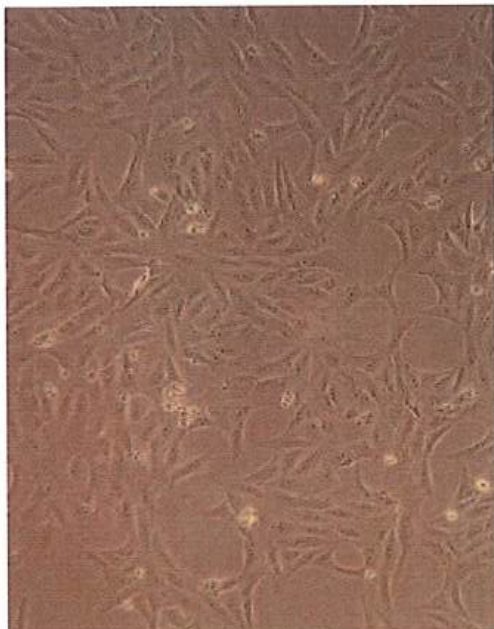
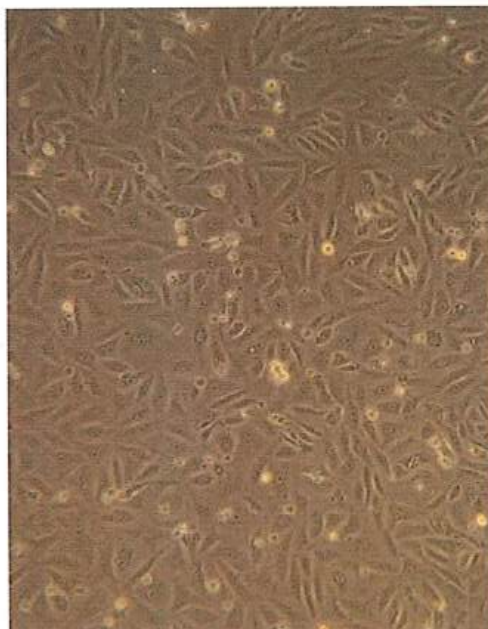
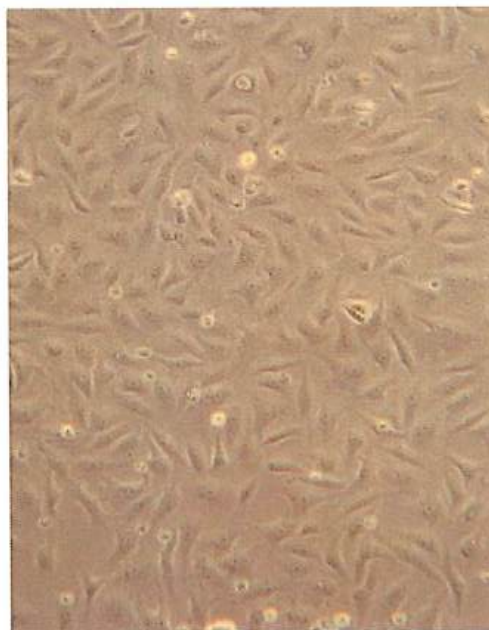
(AS/NZS 4020:2018 Appendix F - Cytotoxic activity)

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Sample Description : Water dispenser 感應式飲水機 (Cold Water)

Sample (24 hr)Blank (24 hr)Sample (48 hr)Blank (48 hr)**Remarks:**

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Appendix II

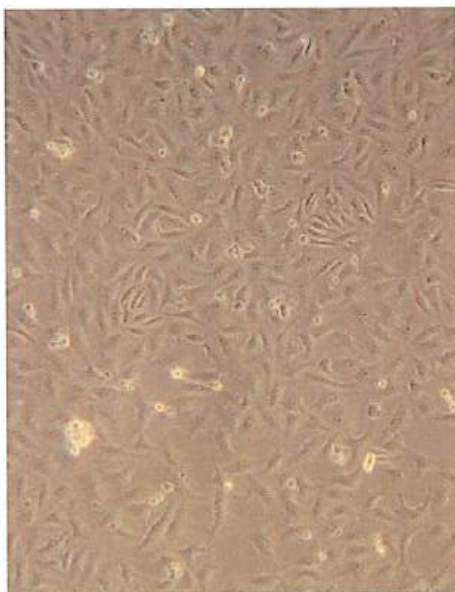
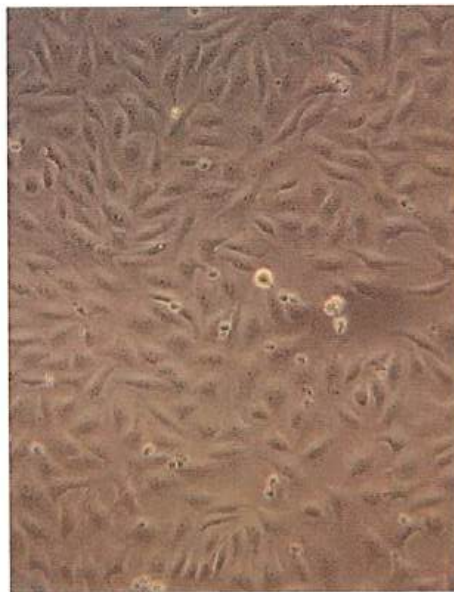
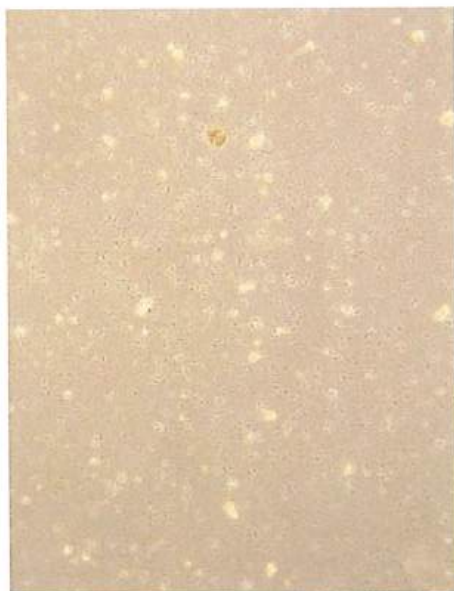
(AS/NZS 4020:2018 Appendix F - Cytotoxic activity)

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Sample Description : Water dispenser 感應式飲水機 (Cold Water)

Sample (72 hr)Blank (72 hr)Zinc SulphateCells only**Remarks:**

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