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TEST REPORT

REPORT NO : 2019CE0254

PAGE : 1 OF 4

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THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : STERLING CIRCLE SDN. BHD.
118B, Jalan Raja Permaisuri Bainun
30250 Ipoh, Perak
MALAYSIA

Manufacturer : STERLING CIRCLE SDN. BHD.
118B, Jalan Raja Permaisuri Bainun,
30250 Ipoh, Perak

Product : Wonderland Carre

Reference Standard / Method of Test : 1) Standard Method for the Examination of Water and Wastewater 2005, 21st Edition Jointly Published by APHA, AWWA and WEF.
2) CEST/TP/AE/In-house 001 for Mercury

Description of sample / Description of Test Specimen : Received one (1) sample for testing. The sample was identified as:
Product Name : Wonderland Carre
Brand : Wonderland
Type : Water Filtration System
Model : WOND-CARRE
Size : 22cm x 22cm x 40cm

Date Received of Complete Application : 14 February 2019

Job No. : J20191400178

Description of Test Results / Overall Test Result : The test results of the submitted test sample are described in Page 2 to Page 4 of this test report.

Issued Date : 04 March 2019

Approved Signatories;


IKM M/T700/3994/99

(ROHAIDAH BINTI IBRAHIM)
Principal Testing Executive




(HAHNAS BINTI MAHBUT)
Head
Chemical & Consumer Section
Testing Services Department

REPORT NO. : 2019CE0254

PAGE : 2 OF 4

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Test Results

Product Name : Wonderland Carre
Brand : Wonderland
Type : Water Filtration System
Model : WOND-CARRE
Size : 22cm x 22cm x 40cm

Sample Collection Procedure

Tap water from Chemical & Consumer Section, Building 16, was passed through the sample. The water after filtration was collected for testing.

| No. | Type of Test | Method Used | Requirement under Malaysian Food Act 1983 for Drinking Water ⁽⁴⁾ | Test Result |
|-----|-------------------|-------------|---|-------------|
| 1. | pH ⁽¹⁾ | pH meter | 6.5 – 8.5 | 6.9 |

| No. | Type of Tests | Method Used | Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ⁽⁴⁾ | Test Results |
|-----|---|-------------------------------|---|-------------------------------|
| 1. | Colour (True colour unit) ⁽¹⁾ | APHA 2120 B | 15 | Less than 5 ⁽³⁾ |
| 2. | Turbidity (NTU) | APHA 2130 B | 2 | 0.02 |
| 3. | Total dissolved solids (TDS), mg/L | APHA 2540 C | - | 49 |
| 4. | Hardness (EDTA) (as CaCO ₃), mg/L | APHA 2340 C | 500 | 33 |
| 5. | Ammonia (as N), mg/L ⁽¹⁾ | APHA 4500 – NH ₃ C | 0.5 | 0.1 |
| 6. | Fluoride (as F ⁻), mg/L | APHA 4110 – B | 0.6 | 0.4 |
| 7. | Chloride (as Cl ⁻), mg/L | APHA 4110 – B | 250 | 10 |
| 8. | Nitrite (as NO ₂ ⁻), mg/L | APHA 4110 – B | 0.2 | Less than 0.02 ⁽³⁾ |
| 9. | Nitrate (as NO ₃ ⁻), mg/L | APHA 4110 – B | 50 | 6 |
| 10. | Phosphate (as PO ₄ ³⁻), mg/L | APHA 4110 – B | - | Less than 0.02 ⁽³⁾ |
| 11. | Sulphate (as SO ₄ ²⁻), mg/L | APHA 4110 – B | 250 | 10 |

⁽¹⁾ Not SAMM Accredited i.e not included on the SIRIM QAS International Sdn. Bhd. Schedule for our laboratory

⁽²⁾ Limit of Detection

⁽⁴⁾ Standard for Water, 25th A Schedule of Regulations 1984

- no limit given



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Test Results

Product Name : Wonderland Carre
Brand : Wonderland
Type : Water Filtration System
Model : WOND-CARRE
Size : 22cm x 22cm x 40cm

| No. | Type of Tests | Method Used | Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ⁽⁴⁾ | Test Results |
|-----|---------------------------------------|-------------------------|---|---------------------------------|
| 12. | Calcium (as Ca), mg/L | APHA 3120 B | - | 11.4 |
| 13. | Magnesium (as Mg), mg/L | APHA 3120 B | 150 | 1.9 |
| 14. | Potassium (as K), mg/L | APHA 3120 B | - | 6.7 |
| 15. | Sodium (as Na), mg/L | APHA 3120 B | 200 | 6.8 |
| 16. | Aluminium (as Al), mg/L | APHA 3120 B | 0.2 | 0.01 |
| 17. | Arsenic (as As), mg/L ⁽¹⁾ | APHA 3120 B | 0.01 | Less than 0.001 ⁽³⁾ |
| 18. | Barium (as Ba), mg/L | APHA 3120 B | 0.7 | 0.003 |
| 19. | Cadmium (as Cd), mg/L | APHA 3120 B | 0.003 | Less than 0.0002 ⁽³⁾ |
| 20. | Chromium (as Cr), mg/L | APHA 3120 B | 0.05 | Less than 0.001 ⁽³⁾ |
| 21. | Copper (as Cu), mg/L | APHA 3120 B | 1 | Less than 0.002 ⁽³⁾ |
| 22. | Iron (as Fe), mg/L | APHA 3120 B | 0.3 | Less than 0.0004 ⁽³⁾ |
| 23. | Lead (as Pb), mg/L | APHA 3120 B | 0.01 | Less than 0.001 ⁽³⁾ |
| 24. | Manganese (as Mn), mg/L | APHA 3120 B | 0.1 | 0.007 |
| 25. | Mercury (as Hg), mg/L | CEST/TP/AE/In-house 001 | 0.001 | Less than 0.001 ⁽³⁾ |
| 26. | Selenium (as Se), mg/L ⁽¹⁾ | APHA 3120 B | 0.01 | Less than 0.003 ⁽³⁾ |
| 27. | Silver (as Ag), mg/L | APHA 3120 B | 0.05 | Less than 0.002 ⁽³⁾ |
| 28. | Zinc (as Zn), mg/L | APHA 3120 B | 3 | Less than 0.002 ⁽³⁾ |
| 29. | Boron (as B), mg/L ⁽¹⁾ | APHA 3120 B | 0.5 | Less than 0.001 ⁽³⁾ |
| 30. | Nickel (as Ni), mg/L | APHA 3120 B | 0.02 | Less than 0.002 ⁽³⁾ |
| 31. | Antimony (as Sb), mg/L ⁽¹⁾ | APHA 3120 B | 0.005 | Less than 0.001 ⁽³⁾ |

⁽¹⁾ Not SAMM Accredited i.e not included on the SAMM Accredited Schedule for our laboratory

⁽²⁾ Limit of Detection

⁽⁴⁾ Standard for Water, 25th A Schedule (M.S. 994:1994)

- no limit given



REPORT NO. : 2019CE0254

PAGE : 4 OF 4

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Test Results

Product Name : Wonderland Carre
Brand : Wonderland
Type : Water Filtration System
Model : WOND-CARRE
Size : 22cm x 22cm x 40cm

| No. | Type of Tests | Method Used | Requirement under Malaysian Food Act 1983 for Drinking Water (maximum allowed) ⁽⁴⁾ | Test Results |
|-----|--|----------------------|---|---------------|
| 1. | Total coliform count per 100 ml (MPN) ⁽¹⁾⁽²⁾ | Multiple Tube Method | 10 | Less than 1.1 |
| 2. | <i>Escherichia coli</i> count per 100 ml (MPN) ⁽¹⁾⁽²⁾ | Multiple Tube Method | Nil | Nil |

Note :

⁽¹⁾ Not SAMM Accredited i.e not included in the SAMM Accreditation Schedule for our laboratory

⁽²⁾ MPN : Most Probable Number

⁽⁴⁾ Standard for Water, 25th A Schedule [Sub regulations 394(1)]

