



TGA Licence No:
MI-15112007-LI-002191-11

APVMA Licence No:
6139

AS/NZS 4020:2005 Compliance Testing

Certificate of Analysis
(Supersedes all interim reporting)
Dated: 31/07/2018

1. **CERTIFICATE OF ANALYSIS AND SAMPLE INFORMATION:**

Methodology: AS/NZS 4020, Appendix A and in-house method TMP-191100 & TMP-191101

Eurofins | ams Report Reference No.: 1822321
Cross Reference No.: NA
Submitting Organisation: Masters Plumbers NZ
Contact: Sarah Rowe
Address: 119 Ghuznee Street, Te Aro, Wellington, NZ 6011
Interim Reporting: NA
Project Completion Date: 31/07/2018

Product Designation: FTL TAP 002, Number Code: 2



Batch No./ Manufacturing Date: Information Not Provided
Product Manufacturer: Information Not Provided
Sampling Organisation: Information Not Provided
General Composition: Information Not Provided
Product Use: End-of-Line

THIS REPORT MUST NOT BE REPRODUCED EXCEPT IN FULL

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| Eurofins ams Laboratory Final Report for the testing of a product to AS/NZS 4020, Products for use in contact with Drinking Water | Eurofins ams Report No.: 1822321 |
| Submitting Organisation: Masters Plumbers NZ | |
| Product: FTL TAP 002, Number Code: 2 | Date of Report: 31/07/2018 |

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|------------------------------------|---|
| Temperature Range: | Information not Provided |
| Previous Testing: | NA |
| Date of receipt of samples: | 02/07/2018 |
| Sample selection for tests: | As provided by the Submitting Organisation |
| Sample storage conditions: | Prepared and controlled as per AS/NZS 4020, <i>Appendix A</i> |
| Extracts: | Prepared as per AS/NZS 4020, <i>Appendices H & I</i> <i>(Accreditation not sought for I)</i> |
| Testing procedure: | Testing is based on 'in-the-product' exposure of 1 x tap / 2,000mL aliquots of test extracts at (55 ± 2)°C using the test rig. Refer to Attachment A for Photo of test sample. |
| Volume retention: | ~135mL |

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2. SUMMARY OF RESULTS:

| APPENDIX | RESULTS |
|---------------------------------------|--------------------------|
| C - TASTE | Not Conducted |
| D - APPEARANCE | Not Conducted |
| E - GROWTH OF AQUATIC MICRO-ORGANISMS | Not Conducted |
| F - CYTOTOXIC ACTIVITY | Not Conducted |
| G - MUTAGENIC ACTIVITY | Not Conducted |
| H - EXTRACTION OF METALS | FAIL at testing exposure |

Based on completion and evaluation of all tests on 31/07/2018, the product, FTL TAP 002, Number Code: 2; did not fully comply with the test requirements of AS/NZS 4020:2005 for Extraction of Metals (Appendices H & I (Accreditation not sought for)) ONLY, to cover a cold and hot water application up to ~55°C, at the recommended 'in-the-product' exposure of 1 x tap / 2,000mL test water at (55 ± 2)°C. NO FURTHER TESTS WERE CONDUCTED FOR THIS PRODUCT.

Testing although determined by the relevant product Standard, is generally recognised for up to 5 years by the certifying body, providing the testing procedures remain the same, and the background information on all wetted parts and the product are adequately documented. Also, the results stated in the report relate to the samples of the product submitted for testing. Any changes in the material formulation and supplier/manufacturer of all wetted items, the process of manufacture, the method of application, or the surface area-to-volume ratio in the end-use, could affect the suitability of the product for use in contact with drinking water, and re-testing may be required before this actual time frame, governed by the completion and evaluation date.

Signed: _____

SANDHYA L. SINGH B. Tech, Postgrad. Dip. (Chem)
Manager, Chemistry and Toxicology; Approved Signatory

Date: 31/07/2018

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| Product: FTL TAP 002, Number Code: 2 | Date of Report: 31/07/2018 |

3. EXTRACTION OF METALS:

Methodology: AS/NZS 4020, *Appendices H & I* ^(Accreditation not sought for I) and in-house methods TMP-191180, TMP-191185 and TMP-191230.

Exposure: 'in-the-product'; 1 x tap / 2,000mL test water

Extraction temperature: (55 ± 2)°C

Scaling factor: NA

Extracts: 6th day

No. of samples for I: 1

No. of samples for II: 1

| Element | AS/NZS 4020: Maximum Allowable Concentration mg/L (ppm) | Limit of Reporting mg/L (ppm) | Test Blank mg/L (ppm) | Sample Extract I mg/L (ppm) | Sample Extract II mg/L (ppm) | FINAL RESULT I mg/L (ppm) | FINAL RESULT II mg/L (ppm) |
|------------------------------|---|-------------------------------|-----------------------|-----------------------------|------------------------------|---------------------------|----------------------------|
| Antimony ¹ (Sb) | 0.003 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Arsenic ¹ (As) | 0.007 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Barium ¹ (Ba) | 0.7 | 0.001 | 0.094 | <0.001 | 0.001 | <0.001 | <0.001 |
| Cadmium ¹ (Cd) | 0.002 | 0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 | <0.0002 |
| Chromium ¹ (Cr) | 0.05 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Copper ¹ (Cu) | 2 | 0.001 | 0.007 | 0.012 | 0.012 | 0.005 | 0.005 |
| Lead ¹ (Pb) | 0.01 | 0.001 | <0.001 | 0.017 | 0.014 | 0.017 | 0.014 |
| Mercury ¹ (Hg) | 0.001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| Molybdenum ¹ (Mo) | 0.05 | 0.002 | <0.002 | <0.002 | <0.002 | <0.002 | <0.002 |
| Nickel ¹ (Ni) | 0.02 | 0.001 | 0.004 | 0.004 | 0.004 | <0.001 | <0.001 |
| Selenium ¹ (Se) | 0.01 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |
| Silver ¹ (Ag) | 0.1 | 0.001 | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

< = less than mg/L = milligram per litre ¹ = ICPMS – In-house Method Code: LTM-MET 3040
First extract becomes final extract.

Test extractions were performed by Eurofins ams Laboratories Pty. Ltd. The test extracts were subsequently subcontracted to Eurofins | mgt for assessment (NATA Accreditation No. 1261), Report No. 609103-W.

EVALUATION:

On the basis of these results the samples of this product referred to in this report **have not complied** with the test requirements of AS/NZS 4020:2005, Extraction of Metals; *Appendices H & I* ^(Accreditation not sought for I).