

NKD BOTTLE TRIAL
Test Report 2492 NKD

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| Test Report Approved By: | Marzena Niedzielska, BSc, Managing Director <i>Niedzielska</i> | 16/02/2017 |
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Report relate only to the items tested. Tests marked * are included in the UKAS accreditation schedule for this laboratory. Further information on accredited tests can be obtained on request. Opinions and Interpretations expressed herein are outside the scope of UKAS accreditation. Tests marked ` have been subcontracted.



1. Testing Timescale:

Testing performed between 05/12/2016- 06/02/2017

2. Testing Scope

To establish manufacturer claim of removal of microbial and chemical contamination from water using NKD bottle system-personal use water bottle with removable filter.

3. Testing set up



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4. Test method

4.1. Samples were prepared using Thames water as a natural source of contaminants (if present) and RO water seeded with known amount of contaminant. Samples were then filtered using NKD water bottle and tested for chemical analysis as listed below.

5. Results

| Determinand | Units | Input | Filtered results | Reduction |
|------------------------|------------|--------|------------------|-----------|
| pH | pH Units | 7.36 | 7.67 | |
| Conductivity | uS/cm@20C | 184.00 | 8.75 | 95.24% |
| Total Dissolved Solids | ppm | 210.00 | 97.00 | 53.81% |
| Total Hardness | mg CaCO3/L | 250.00 | 50.00 | 80.00% |
| Nitrite | mg NO2/L | 1.00 | 0.26 | 74.00% |
| Fluoride | mg F/L | 0.30 | <0.05 | 83.33% |
| Nitrate | mg NO3/L | 87.00 | 46.00 | 47.13% |
| Calcium | mg Ca/L | 198.00 | 91.00 | 54.04% |
| Selenium | mg Se/L | 0.03 | <0.01 | 66,67 |
| Total Cyanide | mg CN/L | 0.50 | <0.010 | 98.00% |
| Arsenic | mg As/L | 0.10 | 0.02 | 80.00% |
| Boron | mg B/L | 0.50 | 0.24 | 52.00% |
| Mercury | mg Hg/L | 0.03 | <0.01 | 66.67% |
| Cadmium | mg Cd/L | 0.01 | <0.003 | 70.00% |
| Chromium | mg Cr/L | 0.04 | <0.01 | 75.00% |
| Copper | mg Cu/L | 0.05 | <0.01 | 80.00% |
| Iron | mg Fe/L | 0.10 | 0.05 | 50.00% |
| Nickel | mg Ni/L | 0.03 | <0.01 | 66.67% |
| Lead | mg Pb/L | 0.10 | 0.01 | 90.00% |

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