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The Hong Kong Standards and Testing Centre

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NO: HC109138

METHOD(S) USED:

1. The submitted Ultracarb Countertop Drinking Water System was flushed for 15 minutes with distilled water to remove any loose particles.
2. Samples of synthetic water with pre-determined level of bacteria (E.coli), residual chlorine; metals (iron, lead, manganese, cadmium, copper, mercury, aluminum, & zinc), and Trihalomethane (THM) (Bromodichloromethane, Bromoform, Chloroform & Dibromochloromethane) were prepared.
3. The prepared synthetic water was allowed to run through the submitted water filter and the effluent from the filter was collected.
4. The contents of all effluent were determined with reference to
   (a) APHA 18ed 9215 A and B
   (b) HACH Colorimetry
   (c) APHA 20ed 3120 B
   (d) Purge & Trap Technique followed by Gas Chromatographic/Mass Selective Detection

TEST RESULT(S):

	Before filtering	After filtering	% reduction
(a) Count of Escherichia coli.....	930,000 CFU/ml	0 CFU/ml	100.0
(b) Residual chlorine content.....	61.0 mg/L	<0.05 mg/L	99.9
(c) Metals			
- Iron.....	16.70 mg/L	<0.01 mg/L	99.9
- Lead.....	15.50 mg/L	<0.01 mg/L	99.9
- Manganese.....	14.26 mg/L	<0.01 mg/L	99.9
- Cadmium.....	13.94 mg/L	<0.001 mg/L	99.9
- Copper.....	14.10 mg/L	<0.01 mg/L	99.9
- Mercury.....	10.13 mg/L	0.005 mg/L	99.9
- Aluminum.....	17.04 mg/L	0.22 mg/L	98.7
- Zinc.....	14.76 mg/L	0.04 mg/L	99.7
(d) Trihalomethane (THM)			
- Bromodichloromethane.....	99 µg/L	<0.7 µg/L	99.3
- Bromoform.....	100 µg/L	<0.7 µg/L	99.3
- Chloroform.....	130 µg/L	<0.7 µg/L	99.5
- Dibromochloromethane....	99 µg/L	<0.7 µg/L	99.3

Notes:
< denotes less than
CFU/ml denotes Colony Forming Unit per milliliter
mg/L denotes milligram per Liter
µg/L denotes microgram per Liter

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