

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
Cadium	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 mg/L	<0.7 mg/L	99.3
Bromoform	100 mg/L	<0.7 mg/L	99.3
Chloroform	130 mg/L	<0.7 mg/L	99.5
Dibromochloromethane	99 mg/L	<0.7 mg/L	99.3

Notes:

< denotes less than

CFU/ml denotes Colony Forming Unit per millilitre

Mg/L denotes milligram per Litre

mg/L denotes microgram per Litre