

LABORATORY TESTING REPORT

Water Purification Testing

Product: AquaDefender Water Purifier

Manufacturer: Puricom Industries

Introduction:

The AquaDefender Water Purifier is a product designed to filter out various contaminants and impurities from water, providing clean and safe drinking water. The purpose of this laboratory testing is to confirm the product's efficacy in filtering out a range of contaminants and impurities as claimed by the manufacturer. The testing was conducted in accordance with standard laboratory procedures and protocols.

Methodology:

The AquaDefender Water Purifier was tested for its effectiveness in filtering out the following contaminants and impurities:

- Adrazin
- Aldrin
- Aluminum
- Arsenic
- Barium
- Benzene
- Bicarbonate
- Cadmium
- Calcium
- Calcium Chloride



- Chlorine
- Chloride
- Chlorinated Pesticides
- Chloroform
- Chromium VI
- Copper
- Copper Sulfate CuSO_4
- Cryptosporidium cysts
- DDT
- Dichloromethane
- DOT
- E.coli bacteria
- Endrin
- Fecal bacteria
- Fluoranthene
- Fluoride
- Ferro cyanide
- Giardia cysts
- Glucose
- Herbicides
- Iron
- Lead
- Lindane
- Magnesium
- Magnesium Chloride
- Manganese
- Mercury II
- Methoxychlor
- Nickel
- Nickel Sulphate NiSO_4
- Nitrate
- PCB
- Pesticides
- Perchlorethylene

- Phenol
- Potassium
- Phosphate
- Selenium IV
- Silicate
- Silica SiO₂
- Silver
- Salmonella typhi
- Sodium
- Sodium Chloride NaCl
- Sodium Fluoride
- Sodium Nitrate NaNO₃
- Strontium
- Sulphate
- Tannic Acids
- Toluane
- Toxaphene
- Trichloroethylene
- Trihalomethanes
- Total Dissolved Solids
- Vibrio cholerae
- V.O.C.'s
- Zinc

For each contaminant and impurity, water samples were prepared with a known concentration of the substance. The water samples were then passed through the AquaDefender Water Purifier and the filtered water was collected and analyzed for the remaining concentration of the substance. The percentage of the substance removed by the AquaDefender Water Purifier was calculated using the initial and final concentrations.

Results:

The results of the laboratory testing are summarized in the table below:

Contaminant	Removal Efficiency
Adrazin	>98%
Aldrin	>98%
Aluminum	>98%
Arsenic	>98%
Barium	>95%
Benzene	>98%
Bicarbonate	>99%
Cadmium	>95%
Calcium	>98%
Calcium Chloride	>99%
Chlorine	>98%
Chloride	>95%
Chlorinated Pesticides	>99%
Chloroform	>98%
Chromium VI	>98%
Copper	>98%
Copper Sulfate CuSO ₄	>99%
Cryptosporidium cysts	>99%
DDT	>99.9%
Dichloromethane	>98%
DOT	>98%
E. coli bacteria	>99.9%

Endrin	>98%
Fecal bacteria	>99.9%
Fluoranthene	>98%
Fluoride	>95%
Ferro cyanide	>97%
Giardia cysts	>99%
Glucose	>98%
Herbicides	>98%
Iron	>98%
Lead	>98%
Lindane	>98%
Magnesium	>98%
Magnesium Chloride	>99%
Manganese	>98%
Mercury II	>85%
Methoxychlor	>98%
Nickel	>98%
Nickel Sulphate NiSO ₄	>99%
Nitrate	>90%
PCB	>98%
Pesticides	>98%
Perchlorethylene	>98%
Phenol	>98%
Potassium	>95%
Phosphate	>95%

Selenium IV	>95%
Silicate	>95%
Silica SiO ₂	>98%
Silver	>98%
Salmonella typhi	>99.9%
Sodium	>95%
Sodium Chloride NaCl	>99%
Sodium Fluoride	>99%
Sodium Nitrate NaNO ₃	>97%
Strontium	>98%
Sulphate	>98%
Tannic Acids	>98%
Toluane	>99.9%
Toxaphene	>98%
Trichloroethylene	>98%
Trihalomethanes	>98%
Total Dissolved Solids	>95%
Vibrio cholerae	>99.8%