VOSS®
artesian water from norway

BOTTLED WATER QUALITY REPORT

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INTRODUCTION

At VOSS, we are proud of the quality of our products. VOSS Artesian Water from Norway meets all bottled water standards for quality and safety at the U.S. Federal, State, Norwegian and International levels. Our scientists and independent certified laboratories perform extensive tests on the water source and finished bottled water product to ensure we exceed or are compliant with all bottled water requirements.

VOSS SOURCE

VOSS is a pure artesian water from Norway that's bottled at its source. Though Norway is a small country, its pristine environment produces some of the best spring and artesian water sources on Earth.

VOSS comes from an aquifer in Southern Norway, protected from air and other pollutants for centuries by impermeable layers of rock and sand. The water is generated in an artesian spring within deep bedrock. When tapped into, the aquifer is pressurized enough to allow the water to rise up naturally towards the surface, then bottled at the source without undergoing filtration.

The high quality of VOSS is controlled by analytical tests. These tests verify that the water is not contaminated in any way. Analytical tests are performed frequently at the source to verify the constancy of the mineral composition.

SPECIFIC MINERAL ANALYSIS

General Mineral Analysis	VOSS Still	VOSS Sparkling
Bicarbonate	<20 mg/L	230 mg/L
Calcium	5 mg/L	5 mg/L
Chloride	12 mg/L	12 mg/L
Fluoride	0.1 mg/L	0.1 mg/L
Magnesium	1 mg/L	1 mg/L
Sodium	6 mg/L	90 mg/L
Sulfate	5 mg/L	5 mg/L
Total Dissolved Solids	44 mg/L	290 mg/L
Total Alkalinity	<20 mg/L	230 mg/L
Conductivity	79 umhos/cm	520 umhos/cm
pH	5.5	4.8
Sodium per 8 oz. serving	1.4 mg	22.9 mg

PRODUCT ANALYSIS (all results in mg/L except as noted)

Product	VOSS Still	VOSS Sparkling	FDA SOQ
Inorganic chemicals			
Antimony (2)	ND	ND	0.006
Arsenic	ND	ND	0.05
Barium	ND	ND	2
Beryllium (2)	ND	ND	0.004
Cadmium	ND	ND	0.005
Chlorine	ND	ND	4.0
Chloramine	ND	ND	4.0
Chlorine dioxide	ND	ND	0.8
Chlorite	ND	ND	1.0
Chromium	ND	ND	0.1
Cyanide (2)	ND	ND	0.1
Fluoride	0.1	0.1	1.0
Lead	ND	ND	0.005
Mercury	ND	ND	0.002
Nickel (2)	ND	ND	0.1
Nitrate-N	ND	ND	10
Nitrite-N	ND	ND	1
Total Nitrate + Nitrite	ND	ND	10
Selenium	ND	ND	0.05
Thallium (2)	ND	ND	0.002
Secondary Inorganic Parameters			
Aluminum	ND	0.055	0.2
Chloride	12	12	250
Copper	ND	ND	1
Iron	ND	ND	0.3
Manganese	0.037	0.037	0.05
Silver	ND	ND	0.1
Sulfate	5	5	250
Total Dissolved Solids (TDS)	44	290	500
Zinc	ND	ND	5

ND = Not detected

PRODUCT ANALYSIS (all results in mg/L except as noted)

Product	VOSS Still	VOSS Sparkling	FDA SOQ
Volatile Organic Chemicals			
1,1,1-Trichloroethane	ND	ND	0.2
1,1,2-Trichloroethane	ND	ND	0.005
1,1-Dichloroethylene	ND	ND	0.007
1,2,4-Trichlorobenzene	ND	ND	0.07
1,2-Dichloroethane	ND	ND	0.005
1,2-Dichloropropane	ND	ND	0.005
Benzene	ND	ND	0.005
Carbon tetrachloride	ND	ND	0.005
cis-1,2-Dichloroethylene	ND	ND	0.07
trans-1,2-Dichloroethylene	ND	ND	0.1
Ethylbenzene	ND	ND	0.7
Haloacetic acids, total (HAA5)	ND	ND	0.06
Methylene chloride (Dichloromethane)	ND	ND	0.005
Methyl tertiary butyl ether (MTBE)	ND	ND	No FDA std.
Monochlorobenzene	ND	ND	0.1
o-Dichlorobenzene	ND	ND	0.6
p-Dichlorobenzene	ND	ND	0.075
Naphthalene	ND	ND	No FDA std.
Styrene	ND	ND	0.1
1,1,2,2-Tetrachloroethane	ND	ND	No FDA std.
Tetrachloroethylene	ND	ND	0.005
Toluene	ND	ND	1
Trichloroethylene	ND	ND	0.005
Vinyl chloride	ND	ND	0.002
Xylenes (total)	ND	ND	10
Bromodichloromethane	ND	ND	No standard
Chlorodibromomethane	ND	ND	No standard
Chloroform	ND	ND	No standard
Bromoform	ND	ND	No standard
Total Trihalomethanes	ND	ND	0.08
Semivolatile Organic Chemicals			
Benzo(a)pyrene	ND	ND	0.0002
Di(2-ethyhexyl)adipate	ND	ND	0.4
Di(2-ethyhexyl)phthalate	ND	ND	0.006
Hexachlorobenzene	ND	ND	0.001
Hexachlorocyclopentadiene	ND	ND	0.05
Total Recoverable Phenolics	ND	ND	0.001

ND = Not detected

PRODUCT ANALYSIS (all results in mg/L except as noted)

Product	VOSS Still	VOSS Sparkling	FDA SOQ
Synthetic Organic Chemicals			
2,4,5-TP (Silvex)	ND	ND	0.05
2,4-D (Dichlorophenoxy acetic acid)	ND	ND	0.07
Alachlor	ND	ND	0.002
Aldicarb	ND	ND	0.003
Aldicarb sulfone	ND	ND	0.003
Aldicarb sulfoxide	ND	ND	0.004
Atrazine	ND	ND	0.003
Carbofuran	ND	ND	0.04
Chlordane	ND	ND	0.002
Dalapon	ND	ND	0.2
Dibromochloropropane (DBCP)	ND	ND	0.0002
Dinoseb	ND	ND	0.007
Dioxin (2,3,7,8-TCDD)	ND	ND	3x10-8
Diquat	ND	ND	0.02
Endothall	ND	ND	0.1
Endrin	ND	ND	0.0002
Ethylene dibromide	ND	ND	0.00005
Glyphosate	ND	ND	0.7
Heptachlor	ND	ND	0.0004
Heptachlor epoxide	ND	ND	0.0002
Lindane	ND	ND	0.0002
Methoxychlor	ND	ND	0.04
Oxamyl (vydate)	ND	ND	0.2
Pentachlorophenol	ND	ND	0.001
Picloram	ND	ND	0.5
Polychlorinated biphenyls (PCBs)	ND	ND	0.0005
Simazine	ND	ND	0.004
Toxaphene	ND	ND	0.003
Water Properties			
Color	ND	ND	5 Units
Turbidity	ND	ND	0.5 NTU
pH	5.5	4.8	6.5-8.5 SU
Odor	ND	ND	3 T.O.N.

ND = Not detected

PRODUCT ANALYSIS (all results in mg/L except as noted)

Product	VOSS Still	VOSS Sparkling	FDA SOQ
Radiological Contaminants			
Gross alpha particle activity	2.25±1.6	1.49±1.44	15 pCi/L
Gross beta particle and photon activity	0.557±0.913	2.59±0.964	50 pCi/L
Radium 226/228 (combined)	3.381±1.004	3.10±0.939	5 pCi/L
Uranium	ND	ND	0.030
Strontium 90	ND	ND	8 pCi/L
Tritium and other manmade nuclides	ND	ND	No standard
Microbiological Contaminants			
Total Coliform	Absent	Absent	Not detected
Heterotrophic Plate Count	<2	<2	No standard
Cryptosporidium parvum	Absent	Absent	No standard
Giardia lamblia	Absent	Absent	No standard
Other Chemicals and Physical Parameters			
Alkalinity in CaCO3 units	<20 mg/L	230 mg/L	No standard
Bicarbonates	<20 mg/L	230 mg/L	No standard
Calcium	5 mg/L	5 mg/L	No standard
Magnesium	1 mg/L	1 mg/L	No standard
Perchlorate	ND	ND	No standard
Potassium	ND	ND	No standard
Sodium	6 mg/L	90 mg/L	No standard

ND = Not detected

California law requires a reference to FDA's website for recalls:

http://www.fda.gov/opacom/7alerts.html

Our product has been thoroughly tested in accordance with federal and California law. Our bottled water is a food product and can not be sold unless it meets the standards established by the U.S. Food and Drug Administration and the California Department of Public Health. The following statements are required under California law:

"Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the United States Food and Drug Administration, Food and Cosmetic Hotline (1-888-723-3366)."

"Some persons may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons, including, but not limited to, persons with cancer who are undergoing chemotherapy, persons who have undergone organ transplants, persons with HIV/AIDS or other immune system disorders, some elderly persons, and infants can be particularly at risk from infections. These persons should seek advice about drinking water from their health care providers. The United States Environmental Protection Agency and the Centers for Disease Control and Prevention guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)."

"The sources of bottled water include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water naturally travels over the surface of the land or through the ground, it can pick up naturally occurring substances as well as substances that are present due to animal and human activity.

Substances that may be present in the source water include any of the following:
1. Inorganic substances, including, but not limited to, salts and metals, that can be naturally occurring or result from farming, urban storm water runoff, industrial or domestic wastewater discharges, or oil and gas production.
2. Pesticides and herbicides that may come from a variety of sources, including, but not limited to, agriculture, urban storm water runoff, and residential uses.
3. Organic substances that are byproducts of industrial processes and petroleum production and can also come from gas stations, urban storm water runoff, agricultural application, and septic systems.
4. Microbial organisms that may come from wildlife, agricultural livestock operations, sewage treatment plants, and septic systems.
5. Substances with radioactive properties that can be naturally occurring or be the result of oil and gas production and mining activities."

"In order to ensure that bottled water is safe to drink, the United States Food and Drug Administration and the State Department of Public Health prescribe regulations that limit the amount of certain contaminants in water provided by bottled water companies."

TERMINOLOGY

Statement of Quality (SOQ) – The standard (statement) of quality for bottled water is the highest level of a contaminant that is allowed in a container of bottled water, as established by the United States Food and Drug Administration (FDA) and the California Department of Public Health. The standards can be no less protective of public health than the standards for public drinking water, established by the U.S. Environmental Protection Agency (EPA) or the California Department of Public Health.

Maximum Contaminant Level (MCL) - The highest level of a contaminant that is allowed in drinking water, established by the U.S. Environmental Protection Agency (EPA) or the California Department of Public Health. Primary MCLs are set as close to the PHGs as is economically and technologically feasible.

Public Health Goal (PHG) - The level of a contaminant in drinking water below which there is no known or expected risk to health. PHGs are set by the California Environmental Protection Agency.

Primary Drinking Water Standard" - MCLs for contaminants established by the U.S. Environmental Protection Agency (EPA) or the California Department of Public Health that affect health along with their monitoring and reporting requirements, and water treatment requirements.