Lab Hanoi Drinking Water Quality Analysis Report (2021 average values)

Escherichia coli (E.coli)	Parameter	Unit	Result	Limit
Acrylamide	Escherichia coli (E.coli)	Number/100 mL	5	0
Benzene mg/L <0,00025 0,0010 Bromate mg/L 0,0550 1,0 Boron mg/L 0,0062 0,010 Chromium mg/L <0,0002	Enterococciacy	Number/100 mL	0	0
Benzene mg/L <0,00025 0,0010 Bromate mg/L 0,0550 1,0 Boron mg/L 0,0062 0,010 Chromium mg/L <0,0002	Acrylamide	mg/L	<0,00005	0,00010
Bromate mg/L 0,050 1,0 Boron mg/L 0,0062 0,010 Chromium mg/L <0,0005			_	
Boron	Bromate			
Chromium	Boron		0.0062	·
Cyanide mg/L <0,0020 0,050 1,2-Dichloroethane mg/L 0,0030 0,0030 Fluoride mg/L 0,30 1,5 Nitrate mg/L 40 50 Pesticides und Biocidal products mg/L <0,00005				
1,2-Dichloroethane				
Fluoride mg/L 0,30 1,5 Nitrate mg/L 40 50 Pesticides und Biocidal products mg/L <0,00005 0,00010 Mercury mg/L <0,00005 0,00010 Mercury mg/L <0,00005 0,0010 Selenium mg/L <0,0001 0,010 Tetrachloroethene + mg/L <0,0001 0,010 Tetrachloroethene mg/L <0,0001 0,010 Uranium mg/L <0,0001 0,0000 Antimony mg/L <0,0010 0,0050 Arsenic mg/L <0,0050 0,010 Benzo-(a)-pyrene mg/L <0,00050 0,010 Benzo-(a)-pyrene mg/L <0,0000025 0,000010 Cadmium mg/L <0,0005 0,010 Cadmium mg/L <0,0001 0,0030 Copper mg/L 2,10 2,0 Nitrite mg/L <0,001 0,020 Nitrite mg/L <0,001 0,020 Nitrite mg/L <0,001 0,020 Nitrite mg/L <0,001 0,00010 Nitrite mg/L <0,000 0,00050 Nitrite mg/L <0,000 0,00050 Nitrite mg/L <0,000 0,00050 Nitrite mg/L <0,001 0,200 Nitrite mg/L <0,01 0,200 Nitrite mg/L <0,01 0,200 Nitrite mg/L <0,01 0,50 Nit				
Nitrate	•			
Pesticides und Biocidal products mg/L <0,00005 0,00010 Mercury mg/L <0,00005			,	
Mercury mg/L <0,0005 0,0010 Selenium mg/L <0,001				
Selenium mg/L <0,001 0,010 Tetrachloroethene mg/L <0,0001	-			·
Tetrachloroethene mg/L <0,0001 0,010 Trichloroethene mg/L <0,0009				
Trichloroethene Uranium mg/L <0,0009 0,010 Antimony mg/L <0,0010				
Uranium mg/L <0,0009 0,010 Antimony mg/L <0,0010		mg/L	10,0001	0,010
Antimony mg/L <0,0010 0,0050 Arsenic mg/L <0,0050		ma/l	<0.0009	0.010
Arsenic mg/L <0,0050 0,010 Benzo-(a)-pyrene mg/L <0,0000025				
Benzo-(a)-pyrene mg/L <0,000025 0,000010 Lead mg/L <0,0005 0,010 Cadmium mg/L <0,0001 0,0030 Copper mg/L 2,10 2,0 Nickel mg/L <0,001 0,020 Nitrite mg/L <0,001 0,50 Polycyclic Aromatic mg/L <0,001 0,50 Hydrocarbons mg/L <0,001 0,50 Hydrocarbons mg/L <0,0001 0,00010 Hydrocarbons mg/L <0,0005 0,0050 Vinyl chloride mg/L <0,0005 0,0050 Aluminum mg/L <0,01 0,20 Ammonium mg/L <0,01 0,50 Chloride mg/L 250 250 Clostridium perfringens (including spores) Total Coliform Bacteria Number/100 mL 10 0 Iron mg/L 0,25 0,200 Color (SAK 436 nm) 1/mL 0,7 0,5 Taste metallic - Colony count at 22°C Number/mL 20 20 Colony count at 36°C Number/mL 110 100 Electrical Conductivity (25°C) μS/cm 650 2790 Manganese mg/L 20 200 Total Organic Carbon mg/L 20 200 Total Organic Carbon mg/L 7,0 - Oxidisability mg/L 20 250 Sulfate mg/L 40 250 Turbidity NTU 1,5 1,0 PH - 7,2 at 15°C 6,5 ≤ PH≤9,5 Calcit dissolving capacity mg/L CaCO ₃ -4,20 5 Radon-222 Bq/L 1 100 Total indicative dose msV/year <0,10 0,10 Chlorine dioxide mg/L 0, 2 0,10 Chlorine dioxide mg/L 0, 2 0,10 Chlorine dioxide mg/L 0,1.r.* 0,2			· ·	
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Cadmium mg/L < 0,0001 0,0030 Copper mg/L 2,10 2,0 Nickel mg/L < 0,001				
Copper mg/L 2,10 2,0 Nickel mg/L <0,001				·
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Nitrite mg/L <0,01 0,50 Polycyclic Aromatic mg/L <0,00010				
Polycyclic Aromatic Hydrocarbons mg/L <0,00010 0,00010 Trihalomethanes mg/L 0,060 0,050 Vinyl chloride mg/L <0,0005				
Hydrocarbons mg/L 0,060 0,050 Vinyl chloride mg/L <0,0005				
Trihalomethanes mg/L 0,060 0,050 Vinyl chloride mg/L <0,0005		mg/L	<0,00010	0,00010
Vinyl chloride mg/L <0,0005 0,00050 Aluminum mg/L <0,01		m a /l	0.060	0.050
Aluminum mg/L <0,01 0,200 Ammonium mg/L <0,01				
Ammonium mg/L <0,01 0,50 Chloride mg/L 250 250 Clostridium perfringens (including spores) Number/100 mL 2 0 Total Coliform Bacteria Number/100 mL 10 0 Iron mg/L 0,25 0,200 Color (SAK 436 nm) 1/mL 0,7 0,5 Odor (as TON) - 3 3 at 20°C Taste - metallic - Colony count at 22°C Number/mL 20 20 Colony count at 36°C Number/mL 110 100 Electrical Conductivity (25°C) μS/cm 650 2790 Manganese mg/L <0,0025				
Chloride mg/L 250 250 Clostridium perfringens (including spores) Number/100 mL 2 0 Total Coliform Bacteria Number/100 mL 10 0 Iron mg/L 0,25 0,200 Color (SAK 436 nm) 1/mL 0,7 0,5 Odor (as TON) - 3 3 at 20°C Taste - metallic - Colony count at 22°C Number/mL 20 20 Colony count at 36°C Number/mL 110 100 Electrical Conductivity (25°C) μS/cm 650 2790 Manganese mg/L <0,0025				, , , , , , , , , , , , , , , , , , ,
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Taste - metallic - Colony count at 22°C Number/mL 20 20 Colony count at 36°C Number/mL 110 100 Electrical Conductivity (25°C) μS/cm 650 2790 Manganese mg/L <0,0025		1/mL		
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Sulfate mg/L 40 250 Turbidity NTU 1,5 1,0 pH - 7,2 at 15°C 6,5≤pH≤9,5 Calcit dissolving capacity mg/L CaCO₃ -4,20 5 Radon-222 Bq/L 1 100 Tritium Bq/L n.r.* 100 Total indicative dose mSv/year <0,10				
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Tritium Bq/L n.r.* 100 Total indicative dose mSv/year <0,10		<u> </u>		
Total indicative dose mSv/year <0,10 0,10 Chlorine dioxide mg/L 0 0,2 Chlorite mg/L n.r.* 0,2				
Total indicative dose mSv/year <0,10 0,10 Chlorine dioxide mg/L 0 0,2 Chlorite mg/L n.r.* 0,2		Bq/L	n.r.*	100
Chlorite mg/L n.r.* 0,2	Total indicative dose	mSv/year	<0,10	0,10
Chlorite mg/L n.r.* 0,2	Chlorine dioxide	mg/L	0	0,2
	Chlorite		n.r.*	0,2
	Phosphate-Phosphorus	,	2,0	2,2

Ozone	mg/L	0	0,05
Acid capacity up to pH 4,3	mol/m ³	3,6	-
Carbonate hardness	°dH	7,2	-
Calcium	mg/L	72	-
Magnesium	mg/L	11	-
Potassium	mg/L	2,5	-
Silicate	mg/L	6,5	-
Hardness range **		medium	-

Hardness range "medium": Calcium carbonate is between 1,5 and 2,5 mmol per liter equivalent as degree German hardness between 8,4 and 14 °dH

Hardness range "hard": more than 2,5 mmol per liter equivalent as degree German hardness more than 14 °dH

^{*}n.r.: not required
**Hardness range "soft": less than 1,5 mmol Calcium carbonate per liter equivalent as degree German hardness less than 8,4