

Clean Environment, Safe Water

Bringing sample

Korea Environment & Water Works Institute

86-3 6Ga, Yangpyung-Dong, Youngdungpo-Gu, Seoul, Korea /TEL 82-2-2637-1234 /FAX 82-2-2631-8767

Certificate of Test




Certificate No.	일반-0911012 A		
Client	Name	RAIFIL	
	Address	Dom3, UI, Kurasantov, Moscow, Russia	
Date of Receipt	Nov. 9, 2009	Date of Test	Nov. 9, 2009 ~ Nov. 30, 2009
Test Sample	GF 10	Use of Report	Quality Management
Test method used	Korean Official Test Method for Drinking Water(ME NO. 2009-233)		
Testing Environment	Temperature : (19 ~ 24) °C, Relative Humidity : (23 ~ 36) % R.H.		

Test Results

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Removal Rate Standard	Test Result		Test Conditions
					Out-Flow Conc.	Removal Rate(%)	
Purification ability	Free Residual Chlorine	mg/L	-	1.98	90 %	불검출	100
	Color	degree	below 5	15.0	80 %	1.0	93
	Turbidity	NTU	below 0.5	5.120	90 %	0.121	98
	Chloroform	mg/L	below 0.08	0.252 09	80 %	0.000 83	100

※ ND : Not Detected

※ Test condition: Korean Test Method for Water Purifier (M.E NO. 2008-45)

Received by Name : Ko Youngho 	Tested by Name : Hong Seokjin 	Technical Manager Name : Song Minhyoung 
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Nov. 30, 2009

Korea Environment & Water Works Institute

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1 / 1 The End.

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Certificate of Test

Certificate No.	일반-0911012 B		
Client	Name	RAIFIL	
	Address	Dom3, Ul, Kurasantov, Moscow, Russia	
Date of Receipt	Nov. 9, 2009	Date of Test	Nov. 9, 2009 ~ Nov. 30, 2009
Test Sample	GF 10	Use of Report	Quality Management
Test method used	Korean Official Test Method for Drinking Water(ME NO. 2009-233)		
Testing Environment	Temperature : (19 ~ 24) °C, Relative Humidity : (23 ~ 36) % R.H.		

Test Results




Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Removal Rate Standard	Test Result		Test Conditions
					Out-Flow Conc.	Removal Rate(%)	
Trihalomethanes	mg/L	below 0.1	0.336 1	90 %	ND	100	Water Pressure : 1 kgf/cm ²
1,1,1-Trichloroethane	mg/L	below 0.1	0.321 6	90 %	ND	100	
Trichloroethylene	mg/L	below 0.03	0.307 9	90 %	ND	100	
Tetrachloroethylene	mg/L	below 0.01	0.102 6	90 %	ND	100	
Dichloromethane	mg/L	below 0.02	0.232 6	90 %	ND	100	
Benzene	mg/L	below 0.01	0.109 6	90 %	ND	100	
Toluene	mg/L	below 0.7	2.299 9	80 %	ND	100	
Ethylbenzene	mg/L	below 0.3	0.988 9	90 %	ND	100	
Xylenes	mg/L	below 0.5	1.612 5	80 %	ND	100	
1,1-Dichloroethylene	mg/L	below 0.03	0.351 2	90 %	ND	100	
Carbon tetrachloride	mg/L	below 0.002	0.020 2	90 %	ND	100	
Diazinon	mg/L	below 0.02	0.062 6	70 %	ND	100	
Parathion	mg/L	below 0.06	0.177 9	70 %	ND	100	
Fenitrothion	mg/L	below 0.04	0.122 1	70 %	ND	100	
Carbaryl	mg/L	below 0.07	0.229 9	70 %	ND	100	
Phenols	mg/L	below 0.005	0.052	90 %	ND	100	
Alkyl Benzene Sulfonate	mg/L	below 0.5	1.49	80 %	ND	100	
Mercury(Hg)	mg/L	below 0.001	0.010 9	90 %	ND	100	
Lead(Pb)	mg/L	below 0.05	0.572	90 %	0.326	43	
Hexa-valent chromium(Cr ⁶⁺)	mg/L	below 0.05	0.482	90 %	0.120	75	

일반-0910017 B (Continue)

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Removal Rate Standard	Test Result		Test Conditions
					Out-Flow Conc.	Removal Rate(%)	
As	mg/L	below 0.05	0.567 7	90 %	0.219 0	61	Water Pressure : 1 kgf/cm ²
Cd	mg/L	below 0.005	0.054 4	90 %	0.056 1	0	
Boron	mg/L	below 1.0	3.536	90 %	3.456	2	
Se	mg/L	below 0.01	0.106 1	90 %	0.056 0	47	
Iron(Fe)	mg/L	below 0.3	0.939	80 %	0.303	68	
Aluminium(Al)	mg/L	below 0.2	0.659	80 %	0.219	67	
NH ₃ -N	mg/L	below 0.5	1.55	80 %	1.54	1	
CN	mg/L	below 0.01	0.51	90 %	0.09	82	
F ⁻	mg/L	below 1.5	4.7	70 %	4.6	2	
NO ₃ -N	mg/L	below 10	30.2	70 %	26.6	12	
Cl ⁻	mg/L	below 250	346	70 %	285	18	
SO ₄ ²⁻	mg/L	below 200	385	70 %	369	4	
Hardness	mg/L	below 300	630.0	70 %	630.0	0	
<i>Total coliform</i>	CFU/mL	ND	740	불검출	ND	100	
1,2-Dibromo-3-chloropropane	mg/L	below 0.003	0.010 1	70 %	ND	100	
Chloral hydrate	mg/L	below 0.03	0.097 94	90 %	ND	100	
Dibromoacetonitrile	mg/L	below 0.1	0.284 41	90 %	ND	100	
Dichloroacetonitrile	mg/L	below 0.09	0.261 43	90 %	ND	100	
Trichloroacetonitrile	mg/L	below 0.004	0.044 94	90 %	ND	100	
Haloacetic acid	mg/L	below 0.1	0.305 1	90 %	ND	100	

※ ND : Not Detected

※ Test condition: Korean Test Method for Water Purifier (M.E NO. 2008-45)

Received by Name : Ko Youngho 	Tested by Name : Hong Seokjin 	Technical Manager Name : Song Minhyoung 
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Certificate of Test

Certificate No.	일반-0911012C		
Client	Name	RAIFIL	
	Address	Dom3, Ul, Kurusantov, Moscow, Russia	
Date of Receipt	Nov. 9, 2009	Date of Test	Nov. 9, 2009 ~ Nov. 30, 2009
Test Sample	GF 10	Use of Report	Quality Management
Test method used	Korean Official Test Method for Drinking Water(ME NO. 2009-233)		
Testing Environment	Temperature : (19 ~ 24) °C, Relative Humidity : (23 ~ 36) % R.H.		

Test Results




Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Out-Flow Conc.	Test Conditions
Lead(Pb)	mg/L	0.05 below	ND	ND	Water Pressure : 1 kgf/cm ²
Fluoride(F ⁻)	mg/L	1.5 below	ND	ND	
Arsenic(As)	mg/L	0.05 below	ND	ND	
Selenium(Se)	mg/L	0.01 below	ND	ND	
Mercury(Hg)	mg/L	0.001 below	-	-	
Cyanide(CN ⁻)	mg/L	0.01 below	ND	ND	
Hexa-valent chromium(Cr ⁶⁺)	mg/L	0.05 below	ND	ND	
Ammonium Nitrogen(NH ₃ -N)	mg/L	0.5 below	ND	ND	
Nitrate Nitrogen(NO ₃ -N)	mg/L	10 below	1.6	0.3	
Cadmium(Cd)	mg/L	0.005 below	ND	ND	
Boron(B)	mg/L	1.0 below	0.012	ND	
Phenols	mg/L	0.005 below	-	-	
1,1,1-Trichloroethane	mg/L	0.1 below	-	-	
Tetrachloroethylene	mg/L	0.01 below	-	-	
Trichloroethylene	mg/L	0.03 below	-	-	
Dichloromethane	mg/L	0.02 below	-	-	
Benzene	mg/L	0.01 below	-	-	
Toluene	mg/L	0.7 below	-	-	
Ethylbenzene	mg/L	0.3 below	-	-	
Xylenes	mg/L	0.5 below	-	-	
1,1-Dichloroethylene	mg/L	0.03 below	-	-	
Carbon tetrachloride	mg/L	0.002 below	-	-	
Diazinon	mg/L	0.02 below	-	-	
Parathion	mg/L	0.06 below	-	-	

일반-0911012 C (Continue)

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Out-Flow Conc.	Test Conditions
Fenitrothion	mg/L	0.04 below	-	-	Water Pressure : 1 kgf/cm ²
Carbaryl	mg/L	0.07 below	-	-	
1,2-Dibromo-3-chloropropane	mg/L	0.003 below	-	-	
Trihalomethanes	mg/L	0.1 below	-	-	
Chloral hydrate	mg/L	0.03 below	-	-	
Dibromoacetonitrile	mg/L	0.1 below	-	-	
Dichloroacetonitrile	mg/L	0.09 below	-	-	
Trichloroacetonitrile	mg/L	0.004 below	-	-	
Haloacetic acid	mg/L	0.1 below	-	-	
General Bacteria	CFU/mL	100 below	Tap Water	ND	
<i>Total coliform</i>	-/100 mL	Not Detected	-	-	
<i>E. coli</i>	-/100 mL	Not Detected	Tap Water	ND	
Hardness	mg/L	300 below	Tap Water	61.0	
Consumption of KMnO ₄	mg/L	10 below	Tap Water	0.32	
Copper(Cu)	mg/L	1 below	Tap Water	ND	
Alkyl Benzene Sulfonate	mg/L	0.5 below	-	-	
pH	-	5.8 ~ 8.5	Tap Water	7.7	
Zinc(Zn)	mg/L	3 below	Tap Water	0.002 0	
Chloride(Cl ⁻)	mg/L	250 below	Tap Water	17	
Dry Residues	mg/L	500 below	Tap Water	109.0	
Iron(Fe)	mg/L	0.3 below	Tap Water	ND	
Manganese(Mn)	mg/L	0.3 below	Tap Water	ND	
Sulfate(SO ₄ ²⁻)	mg/L	200 below	Tap Water	11	
Aluminium(Al)	mg/L	0.2 below	Tap Water	0.047	
Taste	-	Tasteless	Tap Water	Tasteless	
Odor	-	Odorless	Tap Water	Odorless	

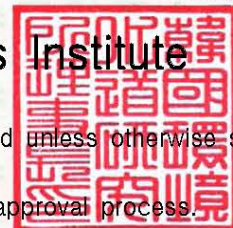
※ ND : Not Detected

※ Test condition: Korean Test Method for Water Purifier (M.E NO. 2008-45)

Received by Name : Ko Youngho 	Tested by Name : Hong Seokjin 	Technical Manager Name : Song Minhyoung 
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