

TEST REPORT ON GENERAL PURIFICATION ABILITY AND CAPACITY OF WATER PURIFIER

Report No : P-100013
 Manufacture Company : HYUNDAI Wacortec CO., LTD. Representative : SHIN YONG SUNG
 Applicant Name : SHIN YONG SUNG Applicant Address : #684-49, Gongreung-Dong, Nowon-Ku, Seoul, Korea
 Products Name : WACO water Purifier Model Name : HW-AP500
 Purification Type : Filtering System Production Date : Feb. 23. 2010
 Request Date : Mar. 12. 2010 Test Completion Date : Apr. 12. 2010

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Removal Rate Standard	Test Result		Test Conditions	
					Out-Flow Conc.	Removal Rate(%)		
Purification ability	Available Free Residual Chlorine	mg/L	-	2.03	90%	Not Detected	100	Water Temp. : 19 °C Water Pressure : 1 kgf/cm ²
	Color	degree	below 5	15.0	80%	1.0	93	
	Turbidity	NTU	below 0.5	5.340	90%	0.098	98	
	Chloroform	mg/L	below 0.08	0.265 13	80%	Not Detected	100	
Available Capacity (synthetic water)	In-Flow Conc.	Sampling(L)	1 200	1 300	1 400	1 500	1 600	
(1 500 L)	Chloroform (0.231 87 mg/L)	Out flow result	0.026 72 (90 %)	0.033 81 (87 %)	0.031 86 (86 %)	0.036 32 (84 %)	0.048 73 (79 %)	
Decision	Pass							
Purpose	Quality Review							

It is certified that this result is the report for general water purification ability test of the product.

Apr. 12. 2010.



KOREA ENVIRONMENT & WATER WORKS INSTITUTE

To : CHIEF DIRECTOR, KOREA WATER PURIFIER INDUSTRY COOPERATIVE

TEST REPORT ON WATER QUALITY OF WATER PURIFIER

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 Applicant Name : SHIN YONG SUNG Applicant Address : #684-49, Gongreung-Dong,
 Nowon-Ku, Seoul, Korea
 Products Name : WACO water Purifier Model Name : HW-AP500
 Purification Type : Filtering System Production Date : Feb. 23. 2010
 Request Date : Mar. 12. 2010 Test Completion Date : Apr. 12. 2010

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Out-Flow Conc.	Test Conditions
Lead(Pb)	mg/L	0.05 below	Not Detected	Not Detected	Water Temp. : 19 °C Water Pressure : 1 kgf/cm ²
Fluoride(F ⁻)	mg/L	1.5 below	Not Detected	Not Detected	
Arsenic(As)	mg/L	0.05 below	Not Detected	Not Detected	
Selenium(Se)	mg/L	0.01 below	Not Detected	Not Detected	
Mercury(Hg)	mg/L	0.001 below	Not Detected	Not Detected	
Cyanide(CN ⁻)	mg/L	0.01 below	Not Detected	Not Detected	
Hexa-valent chromium(Cr ⁶⁺)	mg/L	0.05 below	Not Detected	Not Detected	
Ammonium Nitrogen(NH ₃ -N)	mg/L	0.5 below	Not Detected	Not Detected	
Nitrate Nitrogen(NO ₃ -N)	mg/L	10 below	1.9	1.2	
Cadmium(Cd)	mg/L	0.005 below	Not Detected	Not Detected	
Boron(B)	mg/L	1.0 below	Not Detected	Not Detected	
Phenols	mg/L	0.005 below	Not Detected	Not Detected	
1,1,1-Trichloroethane	mg/L	0.1 below	Not Detected	Not Detected	
Tetrachloroethylene	mg/L	0.01 below	Not Detected	Not Detected	
Trichloroethylene	mg/L	0.03 below	Not Detected	Not Detected	
Dichloromethane	mg/L	0.02 below	Not Detected	Not Detected	
Benzene	mg/L	0.01 below	Not Detected	Not Detected	
Toluene	mg/L	0.7 below	Not Detected	Not Detected	
Ethylbenzene	mg/L	0.3 below	Not Detected	Not Detected	
Xylenes	mg/L	0.5 below	Not Detected	Not Detected	
1,1-Dichloroethylene	mg/L	0.03 below	Not Detected	Not Detected	



No. P-100013

Test Item	Unit	Drinking Water Standard	In-Flow Conc.	Cot-Flow Conc.	Test Conditions
Carbon tetrachloride	mg/L	0.002 below	Not Detected	Not Detected	
Diazinon	mg/L	0.02 below	Not Detected	Not Detected	
Parathion	mg/L	0.06 below	Not Detected	Not Detected	
Fenitrothion	mg/L	0.04 below	Not Detected	Not Detected	
Carbaryl	mg/L	0.07 below	Not Detected	Not Detected	
1,2-Dibromo-3-chloropropane	mg/L	0.003 below	Not Detected	Not Detected	
Trihalomethanes	mg/L	0.1 below	0.019 0	Not Detected	
Chloral hydrate	mg/L	0.03 below	0.002 07	Not Detected	
Dibromoacetonitrile	mg/L	0.1 below	Not Detected	Not Detected	
Dichloroacetonitrile	mg/L	0.09 below	0.001 33	Not Detected	
Trichloroacetonitrile	mg/L	0.004 below	Not Detected	Not Detected	
Haloacetic acid	mg/L	0.1 below	0.007 7	Not Detected	
General Bacteria	CFU/mL	100 below	Tap Water	Not Detected	
<i>Total coliform</i>	-/100 mL	Not Detected	Tap Water	Not Detected	
<i>E. coli</i>	-/100 mL	Not Detected	Tap Water	Not Detected	
Hardness	mg/L	300 below	Tap Water	62.0	
Consumption of KMnO ₄	mg/L	10 below	Tap Water	0.79	
Odor	-	Odorless	Tap Water	Odorless	
Taste	-	Tasteless	Tap Water	Tasteless	
Copper(Cu)	mg/L	1 below	Tap Water	Not Detected	
Alkyl Benzene Sulfonate	mg/L	0.5 below	Tap Water	Not Detected	
pH	-	5.8~8.5	Tap Water	8.9	
Zinc(Zn)	mg/L	3 below	Tap Water	0.040 1	
Chloride(Cl ⁻)	mg/L	250 below	Tap Water	17	
Dry Residues	mg/L	500 below	Tap Water	108.0	
Iron(Fe)	mg/L	0.3 below	Tap Water	Not Detected	
Manganese(Mn)	mg/L	0.3 below	Tap Water	Not Detected	
Sulfate(SO ₄ ²⁻)	mg/L	200 below	Tap Water	11	
Aluminium(Al)	mg/L	0.2 below	Tap Water	Not Detected	
Decision	This product is all satisfied in fifty items for the test				
Purpose	Quality Review				
<p>It is certified that this is the result for water purification test of the water purifier test</p> <p style="text-align: right;">Apr. 12. 2010.</p> <p style="text-align: center;">KOREA ENVIRONMENT & WATER WORKS INSTITUTE</p> <p>To : CHIEF DIRECTOR, KOREA WATER PURIFIER INDUSTRY COOPERATIVE</p>					