



Wellness Water NEC Solubility Tests



The largest and most sophisticated distributor of the Wellness Filter in Japan is NEC Corporation. NEC, one of the greatest technology giants in Japanese history has extensively tested and evaluated Wellness water for several years. They have used the results of this testing to pioneer the use of the Wellness water into a number of new markets and applications.

This test was conducted as an effort to quantify a phenomena they had observed in which Wellness water was seen to temporarily have a higher solubility than normal tap water or spring water. To quantify the exact difference in solubility they had the filter's water tested using a protocol in which a relatively insoluble material (i.e., oil) was extracted by water, allowed to separate, and then the actual amount of oil that dissolved in the water was measured. To the surprise of the research team performing the test, Wellness water (called "Naturalizer" water in the test report) showed a 112% increase in solubility!

Tokyo NEC Headquarters - "Good Food and Water" Seminar, September 10, 2000.

Wellness Filters™ are employed in all NEC Corporation office buildings in Japan for air purification, general maintenance, etc.



N. Saikachi, Senior V.P. - NEC Living Services Ltd, NEC Corporation, Tokyo, Japan: "The water produced from their [Wellness] filter has many proven attributes that give us a significant edge over other competitive filters. Most importantly, the water is cleared of impurities and [other] harmful substances...has many documented benefits and other unique features (cleaning, cooking, plant growth, odour control, etc.). We know these features exist from our own testing and many customer testimonials...including industry, house and apartment [condominium] developers, restaurants, schools, physicians, medical centres, offices, private consumers and beauty salons to name a few...We also use their water for general cleaning as it is much more effective than tap water."

The implications of this test report (the summary of which is attached in both the original Japanese with English translations), are profound since it challenges the standard paradigm on water solubility that chemical engineers and chemists have used for more than 100 years. It also offers a possible explanation for the observed increase in the mass transfer rate of chemicals and nutrients across the cellular membranes in humans, animals and plants. In layman's terms, it clearly reinforces that the filter produces water that is different than what we are accustomed to drinking.

Water for Wellness™
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F A X 連絡書

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 環境ソリューションII部
 浄水活水システムグループ
 グループマネージャー
 原子 勝彦 様

To: NEC LIVING SERVICES
 Environmental Services Division
 (They sell Wellness Filters and products called
 "Naturalizer" in Japan)
 Attn: Mr. Katsuniko Harako, Group Manager

We thank you for bringing your "Naturalizer" water filter over on September 18th for our testing. We tested and measured, and the following are our results [N-21 III(S) refers to your Naturalizer filter].

前略

いつもお世話になります。9月18日(月曜日)にご持参していただきました浄・活水器—新ナチュラルライザIII-N-21 III(S)の通過テストを当方の水道水(武蔵野市水道水)で行ってみましたので、結果をお知らせ致します。

テスト項目は、残留塩素濃度、pH、ORP(酸化還元電位)です。

(Temperature)

テスト結果:(at 23.8° C)

Category 項目/試料水	City Tap Water 水道水	Naturalizer N-21 III(S)	Difference 差
Chlorine 残留塩素	0.6 ppm	0.0 ppm	-0.6 ppm
pH	7.46	7.95	+0.49
ORP	628 mV	271 mV	-357 mV

コメント:

残留塩素は、完全に消えて、pHは、0.5ほど高くなりました。ORPは、半分以下に落ち、自然水のレベルに近づいておりましたので、性能は良いと思われます。

後は、界面活性力と酵素活性の実験が楽しみというところです。

COMMENT: Your filter eliminated measurable chlorine; increased pH nearly 0.5; and dropped ORP more than 50 percent. The quality of this water is excellent and is like natural spring water.

早々
 平成12年9月20日

発信者: 所長 松下和弘

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WINS = Water Institute for life and Natural Science Co., Ltd. (Tokyo)

(Designation of Naturalizer Water Filter)

¹H-NMR 法を利用した浄・活水器 NS-21 III(S)通過水の界面活性力実験結果
Interfacial Tension Test (Surface Activity Tension Test)

ご依頼先

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September 21, 2000

測定日時(2000年9月21日) 測定責任者: 松本和弘

測定装置	日本電子株式会社製 JNM-EX400 型 FT-NMR(フーリエ変換型核磁気共鳴)装置
測定核	¹ H(水素原子核) Machine used ¹ H-NMR-Nippon Denshi Measures Central Neuron Hydrogen 1
測定周波数	400MHz JNM-EX400 Type FT-NMR
測定温度	室温(23℃) Room Temperature 23° C

測定結果 -1 Results

試料水 Test Water	水に溶け込んだサラダ油の量(mMol)	規格化値
▶ コントロール(武蔵野市水道水)	44.12(6.97mMol)	1.00
▶ 新ナチュラルライザー NS-21 III(S)	98.32(15.54mMol)	2.22
差 Difference	+54.20(+8.57mMol)	+1.22

Musashino City
Tap Water
Naturalizer

Test method—two percent salad oil (tri-grease) added; agitated one minute; settle five minutes;
実験方法: measured with ¹H-NMR amount of dissolved oil. 1 mMOL of TSP-d₄ added for measurement use.

各試料水に2%量のサラダ油(オレイン酸のトリグリセリド)を添加し、1分間攪拌した後、5分間経過させてから¹H-NMRスペクトルを測定し、試料水に溶け込んだサラダ油の量を算出した。濃度の基準物質として、1mMolのTSP-d₄(トリメチルシリルプロピオン酸ナトリウム)を加えた。

Comment: Naturalizer water showed 2.22 times more dissolved oil than tap water. Shows
コメント: lower inter facial tension and acts as surfactant.

新ナチュラルライザー NS-21 III(S)型浄・活水器を通過した水道水は、サラダ油を122%(2.22倍)多く溶かしていたので、界面活性力を高めているといえる。

¹H-NMR 法=水素原子核の磁気共鳴法

(NS-21 III(S)) → (III=活性系+セミア730)

Test Performed By: Kazuhiro Matsushita; Head of Lab
(Very famous in water industry; wrote many water books)

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