



## Effects of DDI Technology

**Effects of DDI Technology** on reducing of CFUs (Colony Forming Units) by DDI (Direct Disk Ionization) in tap water.

The tests were performed by SGS\* on two waters:

**Source water** - 6.6 pH 9.2 x 10<sup>3</sup> (CFU/mL)      9.2 x 10<sup>3</sup> = 9200

**LivingWater** - 8.6 pH 1.2 x 10<sup>3</sup> (CFU/mL)      1.2 x 10<sup>3</sup> = 1200

The test by SGS shows that source water with a plate count of 9200 CFU (estimate of viable bacterial or fungal numbers) is reduced to a plate count of 1200 CFU which is an 87%\*\* reduction of CFU when water is processed through a LivingWater engine using DDI technology.



**TEST Report**

Report No. : PD/2010/[REDACTED]

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Date : Nov.02,2010

The following test was submitted &amp; identified by the client as:

Client Group : [REDACTED]Type of Sample : Original WaterSample No. : PDA098201Sampling Group : SGS Taiwan Ltd.Sampling Place : [REDACTED] (Groundwater)Date of Sample received: Oct.26,2010**Test Results:**

Test Requested	Test Results (Unit)	Test Methods	Drinking Water Standards
pH	6.6	NIEA W424.52A	6.0~8.5
Arsenic	ND<0.0005 (mg/L)	NIEA W434.53B	0.01 (mg/L)
Cadmium	ND<0.001 (mg/L)	NIEA W311.51B	0.005 (mg/L)
Hexavalent Chromium	ND<0.01 (mg/L)	NIEA W320.52A	---
Nickel	ND<0.004 (mg/L)	NIEA W311.51B	0.1 (mg/L)
Lead	ND<0.004 (mg/L)	NIEA W311.51B	0.05 (mg/L)
Total Plate Count	9.2×10 <sup>3</sup> (CFU/mL)	NIEA E203.55B	100 (CFU/mL)
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2. The results shown in this test report refer only to the sample(s) tested unless otherwise stated.

3. In there are any discrepancy, the Chinese version shall prevail.



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TWA 3647131



## Effects of DDI Technology

### **Footnotes:**

\*Testing by SGS. Field results may vary based on the content of source water. SGS is the world's largest certification company in the world. The SGS network comprises over 1,500 offices and laboratories and more than 75,000 employees around the world including:

#### **Taiwan**

<b>Country Head Office</b>	SGS Taiwan Ltd.	New Taipei City, Taiwan
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#### **Thailand**

<b>Country Head Office</b>	SGS Thailand Ltd.	Bangkok, Thailand
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#### **Norway**

<b>Country Head Office Lab</b>	SGS Norge AS	Bergen, Norway
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#### **United States**

<b>Country Head Office</b>	SGS North America Inc.	Rutherford, New Jersey
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\*\*Percentage reduction of CFU's may increase or decrease depending upon which pH setting is selected.