

TEST REPORT: 57S074020-01-LYJ



Date: 28 DEC 2007

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**Surface Tension Measurement
FTA 188 Contact Angle Analyser
Report**

For

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INTRODUCTION:

Four pieces of sample were received on 25th July 2007 from Q Lifestyle (S) Pte Ltd. The client requested for surface tension measurement analysis to be performed on the sample.

The sample was labeled as “**Bio Disc- Body & Health- Amezcua**”, and untreated tap water was analysed together as a form of reference to compare the surface tension values against the sample.

METHOD OF TEST:

Instrument Model: **FTA 188 Video Contact Angle Analyser**

The analysis was carried out using Surface Tension mode of measurement. A gilmont micrometer type syringe is used for dispensing the liquid sample onto a based surface i.e. Pendant Drop method.

The drop shape analysis is used to determine surface tension, the drop must be large enough for gravity to clearly distort the spherical shape. The machine was calibrated using DI water surface tension of 72.80 mN/m.

Each image of the drop size is captured and will be analyzed for Surface Tension measurement and readings obtained.



RESULTS AND DISCUSSIONS:

Sample	Reading 1	Reading 2	Average Readings (mN/m)
Untreated Tap Water	90.53	88.28	89.41
Bio Disc Body & Health Amezcuca	76.36	75.64	76.00

△ **Table 1: Comparison of Surface Tension Values between Untreated Tap water and the sample “Bio Disc- Body & Health- Amezcuca”**

The above results show, after treated by Bio Disc, the water surface tension values was reduced.

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