

MICROBIOLOGY DEPARTMENT 2425**AQUACARE**

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Datum/Date: 2006-05-05

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1907835/04-811/X 23567h

AQUACARE - Treated Bottled Water – Stability Tests**1. SAMPLE RECEIVED**

Twenty four bottled water samples were received for microbial stability tests with and without addition of 0,1 ml "AQUACARE solution 1" tests commenced on the 5 July 2004. (one year and nine month Stability trial completed). For further detail see paragraph 4 Results.

2. TEST REQUESTED

Stability testing of bottled water treated with 0,1 ml AQUACARE solution to 500ml water. Untreated control samples were tested in parallel.

3. METHOD OF TEST

- 3.1 A triplicate set of treated bottled water to which 0,1ml of AQUACARE was added on day one and triplicate untreated bottled water kept at ambient temperature were monitored for microbial activity, conducting bacterial counts daily from each set for the initial seven days, then weekly for four weeks, after which monthly samples were taken and tested.
- 3.2 After thorough mixing, inverting the bottles at least 25 times – total viable heterotrophic bacterial counts were done.
- 3.3 The samples were tested in accordance with:
 - 3.2.1 SABS SM 221 Edition 4 2001: Microbiological quality of water: General test methods.

4. RESULTS/...

The acceptance of an item for test and the issue of a test report are subjected to the SABS's CONDITIONS OF TEST*, from which the following have been extracted:

1. If published or reproduced by the client, a test report shall be reproduced **in full**, i.e. the reproduction shall contain the printed as well as the typed parts of the report, nothing excepted. In special circumstances an abridged form of the report or certain parts of the report may be published or reproduced, provided that the abridged form or partial version of the report is approved in writing by the President and CEO of the SABS before publication or issue.
2. A test report relates only to an item submitted for the actual test. It furnishes or implies no guarantee whatsoever in respect of a similar item that has not been tested.
3. The performance of a test and the issue of a test report do not imply approval by the SABS of the quality and/or performance of the item that has been tested. This does not authorize the use of a certification mark.

NOTE - An unlawful statement implying that an item has been approved by the SABS constitutes a punishable offence in terms of section 21(1) of the Standards Act.

4. While every endeavour will be made to ensure that a test is representative and accurately performed, and that a report is accurate in the quoted results and conclusions drawn from the test, the SABS or its officers shall in no way be liable for any error made in carrying out the test or for any erroneous statement, whether in fact or in opinion, contained in a report issued pursuant to a test.

*Obtainable upon request from the President and CEO, SABS, Private Bag X191, Pretoria, 0001.

4.RESULTS

Table 1: Microbiological examination 2004 -07-05 to 2006-05-05

AQUACARE - Stability tests

TriPLICATE Samples	Date sampled	Total viable bacteria count 35°C for 48h	
		Untreated Bottled Water Control	Treated Bottled water 0,1 ml Aqua-Salveo
1	2004-07-05	35	0
2		54	0
3		128	0
1	2004-07-06	2	0
2		43	0
3		14	0
1	2004-07-07	28	0
2		62	0
3		97	0
1	2004-07-08	295	0
2		362	0
3		720	0
1	2004-07-09	460	0
2		674	0
3		1020	0
1	2004-07-12	1870	0
2		2050	0
3		3440	0
1	2004-07-19	3830	0
2		6150	0
3		10 420	0
1	2004-07-26	4700	0
2		8100	0
3		5900	0
1	2004-08-02	15 760	0
2		13 000	0
3		6 800	0
1	2004-08-30	20 050	1
2		22 650	1
3		5 400	0

This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and/or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of official test reports.)

AQUACARE - Stability tests (2004-07-05 to 2006-05-05)

TriPLICATE Samples	Date sampled	Total viable bacteria count 35°C for 48h	
		Untreated Bottled Water Control	Treated Bottled water 0,1 ml Aqua-Salveo
1	2004-09-06	9200	0
2		9900	0
3		12300	0
1	2004-09-20	10300	0
2		7900	0
3		9300	0
1	2004-10-04	13400	0
2		8600	0
3		17600	0
1	2004-10-25	7300	0
2		9500	0
3		15400	0
1	2004-11-01	10300	0
2		4400	0
3		26000	0
1	2005-01-11	5100	0
2		6150	0
3		7300	0
1	2005-01-20	13 400	0
2		14 150	0
3		23 150	0
1	2005-04-20	7150	0
2		6350	0
3		17150	0
1	2005-10-04	3320	0
2		4150	0
3		4355	0
1	2006-04-07	1057	0
2		1604	0
3		2355	0

- Note:**
- 1) No viable organism count was obtained from the Aquacare... treated water samples subjected to ambient laboratory temperature for a period of twenty one (21) months.
 - 2) The viable organism count in the untreated samples did fluctuate at levels $< 10^3$ organisms/ml during the test period.
 - 3) No visual deterioration of the products (water) was noted.

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