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CERTIFICATE OF ANALYSIS

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Our Certificate number: B1829.2

Our Quotation number: Q-BT 5644

Your reference number:

One sample received on the 07 March 2018 at 11h50, sampled by yourselves

Sample markings: Medical Sanitizer 1L Barrier Tech

Sample Description: Medical Sanitizer

Sample Appearance: Clear Liquid in spray bottle (not pressurized)

Condition of sample as received: Commercial Package, Satisfactory

Date testing commenced: 07 March 2018

Date testing completed: 16 April 2018

1. Active ingredients were said to be

Quantemary ammonium compound

Chemical name (Commercial name) as per the label on bottle supplied by the client is "MF Barrier Concentrate, Manufactured by Biosphere Innovation AS" and indicates the sample is a Sanitiser.

2. Testing Procedure:

The sample was subjected to the test procedures as stated in document

1. ****European standards EN1650: 2008 + A1.**

Chemical disinfectants and antiseptics – Quantitative Suspension test for the evaluation of fungicidal of yeasticidal activity of Disinfectants and antiseptics used in food, industrial, domestic and institutional areas. Test method and requirements (phase 2, step 1).

2. ****European standards EN1276: 2009/AC.**

Chemical disinfectants and antiseptics – Quantitative Suspension test for the evaluation of bacterialcidal activity of chemical Disinfectants and antiseptics used in food, industrial, domestic and institutional areas. Test method and requirements (phase 2, step 1).

2.1 Recommendations for use (as per manufacturer's document):

Spray directly onto surface- No dilution

2.2 The conditions of the test were as follows:

i) The sample was used undiluted, as per label 1 and client's instructions dated 2017/08/08.

ii) Challenge organisms used for this trial was *Aspergillus brasiliensis* and *Listeria monocytogenes*.

These were prepared by suspension into Buffer Peptone water. The organisms were enumerated using a Neubauer Counting chamber.

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- iii) The following were used: sterile neutralizing broth and TSA agar
- iv) The contact time was 5 minutes, 15, 30 & 60 minutes at 25°C±2°C (ambient temperature)
- v) Clean conditions: As per method, 0,3g BSA
- vi) Dirty conditions: As per method ,3g BSA

3. Test Results Sample 1

3.1 The microbiological examination on *Listeria monocytogenes* showed the following:

	<u>Initial organism suspension</u> cfu/ml	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>5 Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>15 Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>30 Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>60 Minute Exposure Time</u>
Clean Conditions	21x10 ⁶	>log 5	>log 5	>log 5	>log 5
Dirty Conditions	12x10 ⁶	>log 5	>log 5	>log 5	>log 5

3.1 The microbiological examination on *Aspergillus brasiliensis* showed the following:

	<u>Initial organism suspension</u> cfu/ml	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>5Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>15Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>30 Minute Exposure Time</u>	<u>Log Reduction</u> <u>Microorganism Challenge</u> <u>60 Minute Exposure Time</u>
Clean Conditions	21x10 ⁶	>log 4	>log 4	>log 4	>log 4
Dirty Conditions	12x10 ⁶	>log 4	>log 5	>log 4	>log 4

4. Comments: All laboratory tests carried out as per client’s instructions, Disinfectants Information Form dated 2018/03/06.

5. Opinion

The product shows disinfecting properties; achieving a >log 5 reduction for *Listeria*, >log 4 reduction for fungi under the conditions of test.

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Note: Only original reports are considered official. Electronic documents are transmitted “WITHOUT PREJUDICE”

Signed.....VAS.....this 24th day of April 2018
 V A Soffiantini, Chartered Chemist;
 C.Chem.,M.R.S.C.,Pr.Sci.Nat.

.....SG.....
 S. Gaffoor; Cert. Sci. Nat
 Nat. Dip. Biotechnology
Technical Manager

.....RP.....
 R. Pillay; Nat. Dip. Biotechnology
Technical Signatory

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Requested by and Reported to:
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Lab T0275

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