



TEST REPORT

CLIENT:

ConShield Technologies Inc.
541 Tenth Street NW #233
Atlanta, GA 30318-5713

Attn: Joe Cherry

OBJECTIVE:

To test for the presence of ConShield in concrete samples.

SAMPLES:

Three samples were resubmitted by the client on October 29, 2010 and identified as follows:

1. Concrete Beco A No CS
2. Concrete Beco B CS Mixed for 90 seconds
3. Concrete Beco C CS Mixed for 7 minutes

TESTING:

The samples were analyzed according to ConShield's protocol, a modified ASTM D4783 procedure.

The concrete samples were washed with isopropyl alcohol, dried, and then placed in a carbon dioxide chamber overnight. Additionally, the pH of the samples were taken after they were removed from the carbon dioxide chamber.

A cell suspension of *Serratia marcescens* was prepared using distilled water, estimated at 1×10^7 cfu/ml. Approximately 0.2-0.3 ml of the cell suspension was placed on the sample surface and allowed to dry. The samples were then placed in a closed container with moist paper towels and incubated for 24 hours at $30 \pm 1^\circ\text{C}$.

For cell recovery, 0.2-0.3 ml of sterile water was washed over the outside surface of the core, not the cut surface, stirred with a pipette, then removed and plated on nutrient agar. Additionally, a sterile cotton swab was brushed over the surface of the sample and then used to streak another nutrient agar plate. Both plates were incubated for 48 hours at $30 \pm 1^\circ\text{C}$.

RESULTS:

Once removed from the carbon dioxide chamber, the pH of samples 1 through 3 were 6, 7, and 6, respectively. After 48 hours of incubation, sample 1 and 2 contained red colonies indicating that ConShield was not present, while sample 3 had no growth, indicating that ConShield was present.

Digital images of the samples and nutrient agar plates are presented in Figures 1 through 3 for additional information.

For any feedback concerning our services, please contact the Managing Director or James Nokes, President, at jnokes@microbac.com or Bob Morgan, Chief Operating Officer, at rmorgan@microbac.com. This report applies only to the sample(s) tested or analyzed. This report may be copied only in its entirety, unless prior written consent has been granted by an authorized agent of the Hauser Laboratories Division of Microbac Laboratories, Inc.

Microbac Laboratories, Inc., Hauser Laboratories Division

4750 Nautilus Court South, Unit A, Boulder, CO 80301 Ph: 720 406 4800 Fax: 303 581 0195

www.microbac.com

CLIENT:

ConShield Technologies Inc.
541 Tenth Street NW #233
Atlanta, GA 30318-5713

Attn: Joe Cherry

Figure 1



Sample 1

Figure 2



Sample 2

For any feedback concerning our services, please contact the Managing Director or James Nokes, President, at jnokes@microbac.com or Bob Morgan, Chief Operating Officer, at rmorgan@microbac.com. This report applies only to the sample(s) tested or analyzed. This report may be copied only in its entirety, unless prior written consent has been granted by an authorized agent of the Hauser Laboratories Division of Microbac Laboratories, Inc.

Microbac Laboratories, Inc., Hauser Laboratories Division

4750 Nautilus Court South, Unit A, Boulder, CO 80301 Ph: 720 406 4800 Fax: 303 581 0195

www.microbac.com



CLIENT:

ConShield Technologies Inc.
541 Tenth Street NW #233
Atlanta, GA 30318-5713

Attn: Joe Cherry

Figure 3



Sample 3

**DATA REVIEWED AND
REPORT WRITTEN BY:**

Angelica Tovar Digitally signed by Angelica Tovar
DN: cn=Angelica Tovar, c=US,
email=angelica.tovar@microbac.com
Date: 2010.11.05 15:18:37 -0600

Angelica Tovar
Project Coordinator

REPORT REVIEWED BY:

Becky Kinsinger Digitally signed by Becky Kinsinger
DN: cn=Becky Kinsinger, c=US,
email=bkinsinger@microbac.com
Date: 2010.11.05 15:18:54 -0600

Becky F. Kinsinger
Microbiology Manager

For any feedback concerning our services, please contact the Managing Director or James Nokes, President, at jnokes@microbac.com or Bob Morgan, Chief Operating Officer, at rmorgan@microbac.com. This report applies only to the sample(s) tested or analyzed. This report may be copied only in its entirety, unless prior written consent has been granted by an authorized agent of the Hauser Laboratories Division of Microbac Laboratories, Inc.

Microbac Laboratories, Inc., Hauser Laboratories Division

4750 Nautilus Court South, Unit A, Boulder, CO 80301 Ph: 720 406 4800 Fax: 303 581 0195

www.microbac.com