



**Ecolab Deutschland GmbH  
Ecolab-Allee 1  
D-40789 Monheim am Rhein**

hereby certifies that for

**Banner Engineering Corp.  
9714 10th Ave N.  
Minneapolis, MN  
55441 USA**

**material resistance tests**

were performed with cleaning agents and disinfectants **P3-topactive 200**, **P3-topax 19**, **P3-topax 56**, **P3-topax 91** and demineralized water as zero reference factor.

The material resistance of the tested

**optical sensors QM26**

to the Ecolab products used in the test can be considered to be positive according to the cleaning procedure mentioned overleaf.

Monheim, 30th April 2014

**Ecolab Deutschland GmbH**

i.V.

A handwritten signature in blue ink, appearing to read "Cornel Tewes".

Cornel Tewes

i. V.

A handwritten signature in blue ink, appearing to read "S. Plohl".

Sabina Plohl

## This certificate is based on:

- Documented test procedures (test no: F&E/P3-E Nr. 40-1) according to material resistance
- Defined product description
- Standardized cleaning procedures

### Test procedure

#### Ecolab-test F&E/P3-E Nr. 40-1

##### Dipping test:

- Complete immersion in solutions/liquid

##### Test period:

- 28 days

##### Temperature:

- Room temperature (constant)

##### Analysis:

- Visual judgment like swelling, brittleness, discoloring
- Compared to zero-reference factor (demineralized water)
- Photo-documentation

### Product specifications (examples):

#### P3-topactive 200:

Alkaline cleaning agent for TFC-hygiene procedures in the food and beverage industry

#### P3-topax 19:

Alkaline foam cleaning detergent for the food and beverage industry

#### P3-topax 56:

Acid foam cleaning agent for foam cleaning in the food and beverage industry

#### P3-topax 91:

Neutral disinfection agent based on Quarternary Ammonium Compounds (QAV) for the food and beverage industry.

## Cleaning plan for food and beverage industry\*



### Rinsing with water 40 – 50°C

Rinsing with low pressure. Rinsing from top to bottom in the direction of the drains.

Cleaning of the drains.



### Foaming from bottom to top

alkaline: P3-topactive 200 or P3-topax 19 2–5 % daily

acid: P3-topax 56 2 % on demand

temperature: cold up to 40°C

**Contact time:** 15 Min. recommended



### Rinsing with water 40 – 50°C

Rinsing from top to bottom with low pressure

**Spray disinfection** P3-topax 91, 1-2 %, 30-60 minutes

\*short description.