



**To whom it may concern**

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### **Certificates related to Avery Anti-Microbial Label Range**

Our new range of anti-microbial labels has been received by you and by the market with an overwhelming interest, which we thank you for.

We got more questions regarding certificates and tests related to this range.

During the launch period, the label/foil material naturally has undergone many analyses and tests, which has been conducted by independent institutes to verify the effects of removing 99,9 % of all viruses, bacteria and germs.

### **Enclosed you find test results as well as certificates obtained.**

Avery product codes related to enclosed certificates and statements are:

- L8001-10 | ean-code: 4004182380017
- L8002-10 | ean-code: 4004182380024
- L8003-10 | ean-code: 4004182380031
- L8011-10 | ean-code: 4004182380116
- L8012-10 | ean-code: 4004182380123
- L8013-10 | ean-code: 4004182380130

Please do not hesitate to contact us, in case of further questions or comments.

Many thanks in advance

Best Regards

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## How exactly does the antimicrobial action work?

The foil material is equipped with an antimicrobial coating, which is continuously activated by light and oxygen.

The foil and its coating are extremely durable. They are water and tear-resistant, resistant to oil, detergents and disinfectants and can withstand temperatures of minus 20 to plus 80 degrees. Long term effect of 1 year after application. Self-sterilizing effect, harmless for health.

Based on the photodynamic process, bacteria and viruses are permanently eliminated with oxygen and visible light/artificial light. Photo dynamics is a photo physical process of energy transformation.

The Dyphonx photodynamic catalyst (= special dye) is activated by visible light and then transferred to the oxygen in the atmosphere. This produces the antimicrobial active Singlet oxygen substance. The substance destroys microorganisms such as bacteria and viruses in the subsequent chemical process using oxidation. This does not cause any resistance.

The unique functionality of the technology is patented and confirmed through several studies and certificates of its effectiveness against bacteria and viruses (e.g. certificate for Dyphonx ® universal influenza virus coating H1N1 and TGEV, a representative of the coronavirus family).

## The label Construction:

