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Dr. St/BB

Diop GmbH & Co. KG
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MNV efficacy of Diosol in a quantitative suspension test at 20°C following the EN 14476:2007-02 under clean conditions

EXPERT OPINION

This expert opinion is based on the test report D11ML1236-1M/2M dated 18.10.2011.

The virus-inactivating properties of the surface disinfectant Diosol (basis for hydrogen peroxide vapour to decontaminate rooms with DiosolGenerator) of Diop GmbH & Co.KG against murine norovirus (MNV) were investigated by a quantitative suspension test following EN 14476:2007-02 under clean conditions.

MNV was chosen as a surrogate for human noroviruses since there is no system for virus replication available. Testing this surrogate virus the possibility is created to give recommendations for inactivation of human noroviruses by the disinfectant.

According to this suspension test, a disinfectant or a disinfectant solution at a particular concentration is considered as having virus-inactivating properties if within the recommended exposure period the titre is reduced by $\geq 4 \log_{10}$ (inactivation $\geq 99.99 \%$).

Diosol (12.0 %) was examined as 25.0 % solution at 20°C. 5, 15, 60, 90 und 240 minutes were chosen as exposure time. After an exposure time of 60 minutes virus reduction exceeded 4 \log_{10} -steps in all assays. Therefore, a virucidal activity was measured as follows:

| | | | |
|---|-------------------------|-------------------|-------------------|
| Diosol 12 % H₂O₂ | clean conditions | 25.0 % | 60 minutes |
| corresponding to | | | |
| Diosol 3 % H₂O₂ | clean conditions | 60 minutes | |

Dr. J. Steinmann