



**DR. BRILL + DR. STEINMANN**  
INSTITUTE FOR HYGIENE AND MICROBIOLOGY

Dr. Brill + Partner GmbH, Norderoog 2, DE - 28259 Bremen

Tel: +49 (40) 557631-0  
Fax: +49 (40) 557631-11  
E-mail: jochen.steinmann@brillhygiene.com  
<http://www.brillhygiene.com>

Chemi-Pharm AS  
Pollu 132  
EST – TALLINN 10917

Bremen, 20/02/2018

**Summary: Virus-inactivating properties of Chemisept med of Chemi-Pharm AS according to EN 14476:2013+A1:2015 under clean conditions**

This summary is based on the following test report of Dr. Brill + Partner GmbH for the hand disinfectant Chemisept med produced by Chemi-Pharm AS for hand hygiene in human medicine:

**modified vaccinia virus Ankara test report L17/0629cMV.1 dating 20/02/2018**

The following concentration and exposure time are necessary for the inactivation of the test virus:

**undiluted 15 seconds**

in order to achieve a 4 log<sub>10</sub> reduction (inactivation ≥ 99.99 %) under clean conditions in a quantitative suspension test according to EN 14476:2013+A1:2015.

After evaluation with modified vaccinia virus Ankara the hand disinfectant Chemisept med can be declared as having **"virucidal activity against all enveloped viruses"** according to EN 14476:2013+A1:2015.

The declaration **"virucidal activity against all enveloped viruses"** covers all enveloped humanpathogenic viruses like HBV, HCV, HIV and Ebola virus.

**Dr. Jochen Steinmann**

## From Annex A in EN 14476

### Examples of viruses which may contaminate human medical instruments, hands, surfaces (*Enveloped viruses are in bold*)

NOTE This list is not exhaustive.

#### Blood

Enterovirus  
**Filoviridae**  
**Flavivirus**  
**Herpesviridae**  
Hepatitis A Virus (HAV)  
**Hepatitis B virus (HBV)**

**Hepatitis C virus (HCV)**  
**Hepatitis Delta virus (HDV)**  
**Human Immunodeficiency Virus (HIV)**  
**Human T Cell Leukemia Virus (HTLV)**  
Parvovirus B 19

#### Respiratory tract

Adenovirus (Mast-)  
**Coronavirus**  
Enterovirus  
**Herpesviridae**

**Influenza Virus**  
**Paramyxoviridae**  
Rhinovirus  
**Rubella Virus**

#### Neural tissue, ear & nose, eye

Adenovirus (Mast-)  
Enterovirus  
**Herpesviridae**  
**Measles Virus**

**Human Immunodeficiency Virus (HIV)**  
Polyomavirus  
**Rabies Virus**  
**Rubella Virus**

#### Gastro-intestinal

Adenovirus (Mast-)  
Caliciviridae  
**Coronavirus**  
Astrovirus

Enterovirus  
Hepatitis A Virus (HAV)  
Hepatitis E Virus (HEV)  
Rotavirus

#### Skin, breast and/or milk

Enterovirus  
**Herpesviridae**  
**Human Immunodeficiency Virus (HIV)**

**Human T Cell Leukemia Virus (HTLV)**  
Papillomavirus  
**Poxviridae**

#### Spleen and lymph nodes (see also „Blood“)

**Human T Cell Leukemia Virus (HTLV)**  
**Human Immunodeficiency Virus (HIV)**

#### Dental procedure

Adenovirus (Mast-)  
Enterovirus  
**Herpesviridae**

**Hepatitis C Virus (HCV)**  
**Hepatitis Delta Virus (HDV)**  
**Human Immunodeficiency Virus (HIV)**

**Hepatitis B virus (HBV)**

Urogenital tract

**Hepatitis B Virus (HBV)**

**Herpesviridae**

**Human Immunodeficiency Virus (HIV)**

**Human T Cell Leukemia Virus (HTLV)**

Papillomavirus

Polyomavirus

Reference:

Van Regenmortel MHV et al., Eds.: Virus Taxonomy, Classification and Nomenclature of Viruses, seventh report of the international committee on taxonomy of viruses.

Academic Press, San Diego, 2000



**DR. BRILL + DR. STEINMANN**  
INSTITUTE FOR HYGIENE AND MICROBIOLOGY

Dr. Brill + Partner GmbH, Norderoog 2, DE - 28259 Bremen

Tel: +49 (40) 557631-0  
Fax: +49 (40) 557631-11  
E-mail: [jochen.steinmann@brillhygiene.com](mailto:jochen.steinmann@brillhygiene.com)  
<http://www.brillhygiene.com>

Chemi-Pharm AS  
Pollu 132  
EST – TALLINN 10917

Bremen, 20/02/2018

**Summary: Virus-inactivating properties of Chemisept med of Chemi-Pharm AS according to EN 14476:2013+A1:2015 under clean conditions**

This summary is based on the following test report of Dr. Brill + Partner GmbH for the hand disinfectant Chemisept med produced by Chemi-Pharm AS for hand hygiene in human medicine:

**modified vaccinia virus Ankara test report L17/0629cMV.1 dating 20/02/2018**

The following concentration and exposure time are necessary for the inactivation of the test virus:

**undiluted 15 seconds**

in order to achieve a 4 log<sub>10</sub> reduction (inactivation ≥ 99.99 %) under clean conditions in a quantitative suspension test according to EN 14476:2013+A1:2015.

After evaluation with modified vaccinia virus Ankara the hand disinfectant Chemisept med can be declared as having **"virucidal activity against all enveloped viruses"** according to EN 14476:2013+A1:2015.

The declaration **"virucidal activity against all enveloped viruses"** covers all enveloped humanpathogenic viruses like HBV, HCV, HIV and Ebola virus.

**Dr. Jochen Steinmann**

## From Annex A in EN 14476

### Examples of viruses which may contaminate human medical instruments, hands, surfaces (*Enveloped viruses are in bold*)

NOTE This list is not exhaustive.

#### Blood

Enterovirus  
**Filoviridae**  
**Flavivirus**  
**Herpesviridae**  
Hepatitis A Virus (HAV)  
**Hepatitis B virus (HBV)**

**Hepatitis C virus (HCV)**  
**Hepatitis Delta virus (HDV)**  
**Human Immunodeficiency Virus (HIV)**  
**Human T Cell Leukemia Virus (HTLV)**  
Parvovirus B 19

#### Respiratory tract

Adenovirus (Mast-)  
**Coronavirus**  
Enterovirus  
**Herpesviridae**

**Influenza Virus**  
**Paramyxoviridae**  
Rhinovirus  
**Rubella Virus**

#### Neural tissue, ear & nose, eye

Adenovirus (Mast-)  
Enterovirus  
**Herpesviridae**  
**Measles Virus**

**Human Immunodeficiency Virus (HIV)**  
Polyomavirus  
**Rabies Virus**  
**Rubella Virus**

#### Gastro-intestinal

Adenovirus (Mast-)  
Caliciviridae  
**Coronavirus**  
Astrovirus

Enterovirus  
Hepatitis A Virus (HAV)  
Hepatitis E Virus (HEV)  
Rotavirus

#### Skin, breast and/or milk

Enterovirus  
**Herpesviridae**  
**Human Immunodeficiency Virus (HIV)**

**Human T Cell Leukemia Virus (HTLV)**  
Papillomavirus  
**Poxviridae**

#### Spleen and lymph nodes (see also „Blood“)

**Human T Cell Leukemia Virus (HTLV)**  
**Human Immunodeficiency Virus (HIV)**

#### Dental procedure

Adenovirus (Mast-)  
Enterovirus  
**Herpesviridae**

**Hepatitis C Virus (HCV)**  
**Hepatitis Delta Virus (HDV)**  
**Human Immunodeficiency Virus (HIV)**

**Hepatitis B virus (HBV)**

Urogenital tract

**Hepatitis B Virus (HBV)**

**Herpesviridae**

**Human Immunodeficiency Virus (HIV)**

**Human T Cell Leukemia Virus (HTLV)**

Papillomavirus

Polyomavirus

Reference:

Van Regenmortel MHV et al., Eds.: Virus Taxonomy, Classification and Nomenclature of Viruses, seventh report of the international committee on taxonomy of viruses.

Academic Press, San Diego, 2000