

Berlin, 28th May, 2009**- DATA SHEET -****Standard preparations of H1N1 influenza viruses for diagnostic purposes.**

Description: The samples you obtained contain cell culture supernatant of MDCK cells infected with different H1N1 influenza virus strains: A/California /04/2009; A/Hamburg/4/2009.

The material should be used as positive control for conventional and real-time PCR in a dilution (1:10 - 1:100). While H1N1 influenza from sample ^a and ^b belongs to the influenza A(H1N1) swine-like virus strains they should react in all newly developed PCR assays. The material is probably not useful as positive control for rapid dipstick tests developed for antigen detection of influenza virus.

- Beware the risk of contamination of your PCR by high positive material. -

The samples were inactivated by heat and gamma irradiation (30 kGray). According to the inactivation procedures used, we assure you that we provide you with safe and **non-biohazard** material which can be handled under normal laboratory conditions. The virus preparation was diluted in human plasma tested negative for HIV, HBV and HCV before aliquoting and freeze drying.

-- The samples must be resolved by adding 100 µl bi.dest. water before use. --

Analysis of the samples

H1N1 Influenza strain	HA titre ¹	mean CT values ²	mean CT values ⁴	mean geg / ml ²	mean geg / ml ³
A/California/04/2009 ^a	2	29.5	34.0	7.0 x 10 ⁴	3.6 x 10 ⁴
A/Hamburg/4/2009 ^b	2	23.1	27.9	3.5 x 10 ⁶	3.6 x 10 ⁶

The virus isolates were kindly provided by Nancy Cox^a and her team from the Centers for Disease Control and Prevention (CDC), Atlanta, USA and from Brunhilde Schweiger & Barbara Biere^b, Robert Koch Institut (RKI), Berlin, Germany

¹ The analysis of the HA titre of the preparation before inactivation

² The RT PCR CT values and genome equivalents per ml (geg/ml) were analysed at the RKI and are confirmed by ³ Sylvie van der Werf, Unité de Génétique Moléculaire des Virus Respiratoires, Institut Pasteur, Paris, France; ⁴ Rod Daniels, Virology Division, National Institute for Medical Research (NIMR), Mill Hill, London, UK (dilution 1:10 were analysed)

Acknowledgement:

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We would kindly ask you to acknowledge our contributions in publications etc.

For further requests, please contact: Matthias Niedrig, Robert Koch-Institut, Berlin, Germany
email: enivd@rki.de, Phone: ++49-30-18754-2370, Fax: ++49-30-18754-2625