

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the reference material producer

Leibniz-Institut DSMZ-Deutsche Sammlung von Mikroorganismen und Zellkulturen GmbH
Abteilung Pflanzenviren

at the locations

Inhoffenstraße 7 B, 38124 Braunschweig
Messeweg 11-12, 38104 Braunschweig

is competent under the terms of DIN EN ISO 17034:2017 to produce reference materials in the area:

certified reference materials in the form of inoculum, nucleic acid-extracts and serological diagnostics of plant viruses

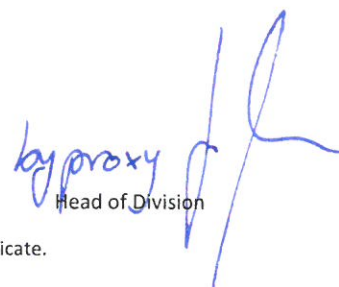
The accreditation certificate shall only apply in connection with the notice of accreditation of 05.12.2018 with the accreditation number D-RM-18324-01 and is valid until 27.06.2022. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 2 pages.

Registration number of the certificate: **D-RM-18324-01-00**

Berlin,
05.12.2018

Dipl.-Ing. Andrea Valbuena
Head of Division

Translation issued:
05.12.2018


Head of Division

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
60327 Frankfurt am Main

Office Braunschweig
Bundesallee 100
38116 Braunschweig

The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council setting out the requirements for accreditation and market surveillance relating to the marketing of products.

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-RM-18324-01-00 according to DIN EN ISO 17034:2017

Period of validity: 05.12.2018 to 27.06.2022

Date of issue: 05.12.2018

Holder of certificate:

**Leibniz-Institut DSMZ-Deutsche Sammlung von Mikroorganismen und
Zellkulturen GmbH
Abteilung Pflanzenviren**

at the locations

**Inhoffenstraße 7 B, 38124 Braunschweig
Messeweg 11-12, 38104 Braunschweig**

Reference material production in the fields:

**certified reference materials in the form of inoculum, nucleic acid-extracts and serological
diagnostics of plant viruses**

Abbreviations used: see last page

Product	Characteristics	Range	Relative uncertainty	Methods
Infectious isolates of plant viruses	Identity, infectivity	qualitative	Corresponding to King et al. 2012*	Characterized for example by (RT-)PCR, sequence analysis, serological reaction, host range, dsRNA analysis, transmission, electron microscopy
Positive controls for serological virus detection	Serological reaction with antisera	qualitative	----	ELISA (for example DAS-ELISA, TAS-ELISA, ACP-ELISA)
Nucleic acid extracts	Nucleic acid extracts of virus infected plant material	qualitative	----	Nucleic acid-extraction from virus infected plant material (characterized for example by (RT-)PCR, sequence analysis, serological reaction, host range, dsRNA analysis, transmission, electron microscopy)
Antisera for serological virus detection	Serological reaction with plant viruses	qualitative	----	ELISA (for example DAS-ELISA, TAS-ELISA, ACP-ELISA)

* King et al. (eds) (2012) Virus Taxonomy. Ninth Report of the International Committee on Taxonomy of Viruses. Academic Press, San Diego, CA.

Abbreviations used:

(RT-)PCR (reverse transcription-) polymerase chain reaction
 DAS-ELISA double antibody sandwich - enzyme-linked immunosorbent assay
 TAS-ELISA triple antibody sandwich - enzyme-linked immunosorbent assay
 ACP-ELISA antigen coated plate - enzyme-linked immunosorbent assay

