



**Leibniz Institute**  
DSMZ-German Collection  
of Microorganisms  
and Cell Cultures GmbH

# PLANT VIRUS DIAGNOSTICS CATALOGUE

## 2024



Images on front cover

center: severely stunted zucchini plant infected with *Tomato leaf curl New Delhi virus* (ToLCNDV)

bottom left: symptomatic tomato fruits mixed infected with *Tomato brown rugose fruit virus* (ToBRFV) and *Pepino mosaic virus* (PepMV)

bottom right: rot of cassava storage roots caused by *Cassava brown streak virus* (CBSV)

Images on back cover

top left: *Echinacea* plant affected by a mixed infection of *Cucumber mosaic virus* (CMV) and *Broad bean wilt virus 1* (BBWV-1)

top center: zucchini plant displaying leaf and fruit symptoms due to a mixed infection with *Tomato leaf curl New Delhi virus* (ToLCNDV) and *Zucchini yellow mosaic virus* (ZYMV)

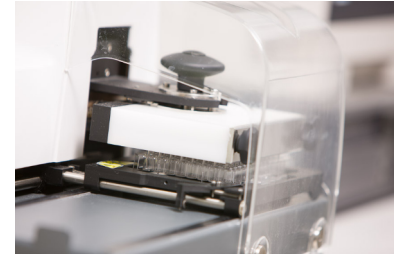
top right: *Eggplant mottled dwarf alphanucleorhabdovirus* (EMDV) causing flower breaking in *Hydrangea macrophylla*

The high quality diagnostic products and services offered by the Plant Virus Department of Leibniz-Institute DSMZ are based on more than 30 years of experience. Together with our continually improved quality management system, this guarantees our customers the highest level of satisfaction.

Enzyme-linked immunosorbent assay (ELISA) is still the most widely used method for large scale testing of plant viruses.

DSMZ offers about 250 high quality serological reagents and positive controls for routine ELISA detection of the most important viruses infecting agricultural and horticultural crops. The available diagnostic products are listed in alphabetic order in this catalogue.

**Please use our online catalogue to check the availability of our wide range of infectious virus isolates which are not listed in this diagnostic catalogue.**



### ELISA sets (labelled as RT - recommended test)

- contain IgG and conjugate (IgG-AP) for **DAS-ELISA**
- contain IgG, Mab and RAM-AP for **TAS-ELISA**
- are optimized and provided for a **test volume of 200µl**

and are supplied as 100 test units (smallest unit) up to >1,000 test units.



### ELISA controls

Plant virus materials for use as positive/negative controls in ELISA consist of freeze-dried homogenates of virus infected or healthy plants and are to be reconstituted in buffer prior to use. In some cases, desiccated leaf material may be provided as ELISA controls.

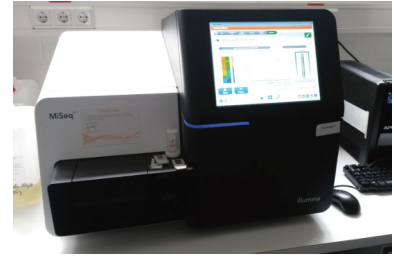


- Dissolve controls consisting of **freeze dried plant homogenate** in 2ml sample extraction buffer.
- Controls consisting of **freeze dried leaf material** have to be homogenized in sample extraction buffer (1:50 weight/volume) prior to use.

## Our high throughput sequencing services to support plant health

High throughput sequencing (HTS) technologies offer unprecedented opportunities to reveal the phytosanitary status of a plant sample, without *a priori* knowledge of a particular organism.

The generation of high amounts of sequencing data allows a global profiling of samples on a large scale, with rapid results and at low costs.



We provide HTS services for analysis of plant samples on the basis of our profound laboratory competences covering all steps of a workflow - from DNA/RNA extraction, state of the art library preparation, sequencing on Illumina platforms and comprehensive bioinformatics analyses.

We offer support at every step including consultation on project planning, real-time updates on the process, fast delivery of results and post-analysis evaluation to support management decisions.

### Our services enable:

- global analysis of the phytosanitary status of plants
- rapid and precise identification of pathogens
- discovery of novel or rare variants
- characterization of the genetic variation and population composition
- the safe movement and international exchange of nursery materials and elite propagation and breeding lines

For any further information about our services, please contact us at [plantvirus@dsmz.de](mailto:plantvirus@dsmz.de) or directly contact our HTS and bioinformatics specialist Dr. Paolo Margaria at [paolo.margaria@dsmz.de](mailto:paolo.margaria@dsmz.de).



Virus species for which ELISA antisera sets and the respective controls are available are listed below in alphabetic order. Antisera and controls always need to be ordered separately. Our webshop offers a convenient way to place your orders and helps to process your orders as fast as possible: [www.dsmz.de/catalogues/catalogue-plant-viruses-and-antisera.html](http://www.dsmz.de/catalogues/catalogue-plant-viruses-and-antisera.html).

Please use our online catalogue also to check the availability of our wide range of infectious virus isolates which are not listed in this diagnostic catalogue.

For better readability, the new Latinized binominal virus nomenclature is not used.

***African cassava mosaic virus (ACMV)***

see cassava mosaic geminiviruses

***Agropyron mosaic virus (AgMV, Rymovirus)***

DAS-ELISA	RT-0729
Positive control	PC-0729
Negative control	NC-0729

***Alfalfa mosaic virus (AMV, Alfamovirus)***

DAS-ELISA	RT-0779
Positive control	PC-0779
Negative control	NC-0779

***Alstroemeria mosaic virus (AIMV, Potyvirus)***

DAS-ELISA	RT-0121
Positive control	PC-0328
Negative control	NC-0328

***Alternanthera mosaic virus (AltMV, Potexvirus)***

DAS-ELISA	RT-0725
Positive control	PC-0725
Negative control	NC-0725

***Andean potato latent virus (APLV, Tymovirus)***

Detection of APLV-Col/Col-2 isolates and

*Andean potato mild mosaic virus (APMMV)*

(formerly recognized as APLV-Hu isolates).

Cross reaction with *Eggplant mosaic virus (EMV)*

DAS-ELISA

Positive control

Negative control

Positive control

RT-0978

PC-0060

NC-0061

PC-1149

Note: In accordance with Council Regulation (EC) No 428/2009 (and following amendments), APLV/APMMV isolates and positive controls will not be shipped outside EU countries.

Please use *Eggplant mosaic virus (EMV)* positive control PC-1149 instead.

***Andean potato mild mosaic virus (APMMV,****Tymovirus)*see *Andean potato latent virus (APLV)****Andean potato mottle virus (APMoV, Comovirus)***

Detection of ApMoV strains B, C, H.

DAS-ELISA

Positive control

Negative control

RT-0005

PC-0057

NC-0057

***Angelonia flower break virus (AFBV, Carmovirus)***

DAS-ELISA

Positive control

Negative control

RT-0858

PC-0858

NC-0858

***Apium virus Y (ApVY, Potyvirus)***

DAS-ELISA

Positive control

Negative control

RT-1001

PC-1001

NC-1001

***Arabis mosaic virus (ArMV, Nepovirus)***

DAS-ELISA

Positive control

Negative control

RT-0008

PC-0045

NC-0045

***Arracacha virus B (AVB, Cheravirus)***

DAS-ELISA

Positive control

Negative control

RT-0009

PC-0082

NC-0082

***Asparagus virus 1 (AV-1, Potyvirus)***

DAS-ELISA

RT-0954

Positive control

PC-0954

Negative control

NC-0954

***Asparagus virus 2 (AV-2, Ilarvirus)***

TAS-ELISA

RT-0953-0645/1

Positive control

PC-0953

Negative control

NC-0953

***Bacopa chlorosis virus (BaCV, Ilarvirus)***

DAS-ELISA

RT-0991

Positive control

PC-0991

Negative control

NC-0991

**Banana *Xanthomonas* / bacterial wilt (BXW)**see *Xanthomonas vasicola* pv. *musacearum* (Xvm)***Banana streak Mysore virus (BSMysV, Badnavirus)***

DAS-ELISA

RT-1049

Positive control

PC-1049

Negative control

NC-1049

***Banana streak OL virus (BSOLV, Badnavirus)***

TAS-ELISA

RT-0986-0492/31

Positive control

PC-0492

Negative control

NC-0492

***Barley mild mosaic virus (BaMMV, Bymovirus)***

DAS-ELISA

RT-0139

Positive control

PC-0329

Negative control

NC-0329

***Barley stripe mosaic virus (BSMV, Hordeivirus)***

DAS-ELISA

RT-0135

Positive control

PC-0330

Negative control

NC-0330

**Barley yellow mosaic virus (BaYMV, Bymovirus)**

DAS-ELISA

RT-0922

Positive control

PC-0634

Negative control

NC-0634

**Bean common mosaic necrosis virus  
(BCMNV, Potyvirus)**

DAS-ELISA

RT-0239

Positive control

PC-0413

Negative control

NC-0413

**Bean common mosaic virus (BCMV, Potyvirus)**

TAS-ELISA

RT-0915-0228/1

Positive control

PC-0463

Negative control

NC-0463

**Bean golden yellow mosaic virus (BGMV, Begomovirus)**

TAS-ELISA

RT-0616-0616/2

Positive control

PC-0094

Negative control

NC-0094

**Bean leaf roll virus (BLRV, Luteovirus)**

TAS-ELISA

RT-0142-0227/2

Positive control

PC-0331

Negative control

NC-0331

**Bean yellow mosaic virus (BYMV, Potyvirus)**

DAS-ELISA

RT-0717

Positive control

PC-0717

Negative control

NC-0717

**Beet black scorch virus (BBSV, Betanecrovirus)**

DAS-ELISA

RT-0951

Positive control

PC-0951

Negative control

NC-0951

**Beet chlorosis virus (BChV, Polerovirus)** and  
**Beet mild yellowing virus (BMYV, Polerovirus)**

Positive control

PC-1211

Positive control

PC-1210

can be reliably detected with our

**Beet western yellows virus (BWYV) ELISA.**



***Beet mosaic virus (BtMV, Potyvirus)***

DAS-ELISA

RT-0143

Positive control

PC-0791

Negative control

NC-0791

***Beet necrotic yellow vein virus (BNYVV, Benyvirus)***

Weak cross reaction with BSBMV.

DAS-ELISA

RT-0737

Positive control

PC-0467

Negative control

NC-0467

***Beet soil-borne mosaic virus (BSBMV, Benyvirus)***

DAS-ELISA

RT-1035

Positive control

PC-1035

Negative control

NC-1035

***Beet soil-borne virus (BSBV, Pomovirus)***

Weak cross reaction with BVQ observed.

TAS-ELISA

RT-0576-0576/2

Positive control

PC-0576

Negative control

NC-0576

***Beet western yellows virus (BWYV, Polerovirus)***

Test also detects *Turnip yellows virus* (TuYV),  
*Beet mild yellowing virus* (BMV) and  
*Beet chlorosis virus* (BChV).

TAS-ELISA

RT-0049-0049/1

Positive control

PC-1209

Positive control

PC-1210

Positive control

PC-1211

Negative control

NC-1209

***Beet yellows virus (BYV, Closterovirus)***

DAS-ELISA

RT-0185

Positive control

PC-0981

Negative control

NC-0981

***Belladonna mottle virus (BeMV, Tymovirus)***

DAS-ELISA

RT-0179

Positive control

PC-0042

Negative control

NC-0042

***Bell pepper mottle virus (BPeMV, Tobamovirus)***

Indication for weak cross reaction with other tobamoviruses.

DAS-ELISA

RT-0244

Positive control

PC-0170

Negative control

NC-0170

***Broad bean true mosaic virus (BBTMV, Comovirus)***

DAS-ELISA

RT-0152

Positive control

PC-0098

Negative control

NC-0098

***Broad bean wilt virus 1 (BBWV-1, Fabavirus)***

DAS-ELISA

RT-0548

Positive control

PC-1086

Negative control

NC-1086

***Broad bean wilt virus 2 (BBWV-2, Fabavirus)***

DAS-ELISA

RT-0862

Positive control

PC-0862

Negative control

NC-0862

***Brome mosaic virus (BMV, Bromovirus)***

DAS-ELISA

RT-1040

Positive control

PC-0178

Negative control

NC-0178

***Brome streak mosaic virus (BrSMV, Tritimovirus)***

DAS-ELISA

RT-0932

Positive control

PC-1052

Negative control

NC-1052

***Calibrachoa mottle virus (CbMV, Carmovirus)***

DAS-ELISA

RT-0611

Positive control

PC-0611

Negative control

NC-0611

***Capsicum chlorosis virus (CaCV, Orthotospovirus)***

DAS-ELISA

RT-0864

Positive control

PC-0864

Negative control

NC-0864

***Carnation Italian ringspot virus (CIRV, Tombusvirus)***

DAS-ELISA

RT-0147

Positive control

PC-0069

Negative control

NC-0069

***Carnation mottle virus (CarMV, Carmovirus)***

DAS-ELISA

RT-0878

Positive control

PC-0878

Negative control

NC-0878

***Carnation ringspot virus (CRSV, Dianthovirus)***

DAS-ELISA

RT-0202

Positive control

PC-0097

Negative control

NC-0097

***Carnation vein mottle virus (CVMoV, Potyvirus)***

DAS-ELISA

RT-0088

Positive control

PC-0251

Negative control

NC-0251

***Carrot necrotic dieback virus (CNDV, Sequivirus)***

DAS-ELISA

RT-0977

Positive control

PC-0977

Negative control

NC-0977

***Carrot virus Y (CarVY, Potyvirus)***

DAS-ELISA

RT-0759

Positive control

PC-0759

Negative control

NC-0759

***Carrot thin leaf virus (CTLV, Potyvirus)***

DAS-ELISA

RT-1005

Positive control

PC-1005

Negative control

NC-1005

***Cauliflower mosaic virus (CaMV, Caulimovirus)***

DAS-ELISA

RT-0206

Positive control

PC-0229

Negative control

NC-0229

**Cassava brown streak disease (CBSD)**

General detection of isolates and strains of CBSV and UCBSV.

TAS-ELISA

Positive control

Negative control

RT-1153-1153/1

PC-0925

NC-0925

***Cassava brown streak virus (CBSV, Ipomovirus)***

see cassava brown streak disease (CBSD)

***Cassava common mosaic virus (CsCMV, Potexvirus)***

DAS-ELISA

Positive control

Negative control

RT-0723

PC-0723

NC-0723

**Cassava mosaic geminiviruses*****African cassava mosaic virus (ACMV, Begomovirus)***

Detection of ACMV and EACMV.

TAS-ELISA

Positive control

Negative control

RT-0421-0421/2

PC-0421

NC-0421

***Sri Lankan cassava mosaic virus***

(SLCMV, Begomovirus)

TAS-ELISA

Positive control

Negative control

RT-0424-0424/1

PC-0424

NC-0424

***Cassava Congo Sequivirus***

DAS-ELISA

Positive control

Negative control

RT-0896

PC-0896

NC-0896

***Celery mosaic virus (CeMV, Potyvirus)***

DAS-ELISA

Positive control

Negative control

RT-0148

PC-0294

NC-0294

***Cherry leaf roll virus (CLRV, Nepovirus)***

DAS-ELISA

Positive control

Negative control

RT-0149

PC-0797

NC-0797

***Chilli veinal mottle virus (ChiVMV, Potyvirus)***

DAS-ELISA

RT-0122

Positive control

PC-0255

Negative control

NC-0255

***Chrysanthemum stem necrosis virus******(CSNV, Orthotospovirus)***

Possible weak cross reaction with TSWV, TCSV and ANSV.

DAS-ELISA

RT-0529

Positive control

PC-0529

Negative control

NC-0529

***Citrus tristeza virus (CTV, Closterovirus)***

DAS-ELISA

RT-0988

Positive control

PC-0332

Negative control

NC-0332

***Clover yellow mosaic virus (CIYMV, Potexvirus)***

DAS-ELISA

RT-0589

Positive control

PC-0851

Negative control

NC-0851

***Clover yellow vein virus (CIYVV, Potyvirus)***

Cross reaction with SMV.

DAS-ELISA

RT-0243

Positive control

PC-0367

Negative control

NC-0367

***Cocksfoot mild mosaic virus (CMMV, Sobemovirus)***

DAS-ELISA

RT-0151

Positive control

PC-0333

Negative control

NC-0333

***Cocksfoot mottle virus (CoMV, Sobemovirus)***

DAS-ELISA

RT-0727

Positive control

PC-0727

Negative control

NC-0727

***Cocksfoot streak virus (CSV, Potyvirus)***

DAS-ELISA

RT-0933

Positive control

PC-1331

Negative control

NC-0933

***Cowpea aphid-borne mosaic virus***  
(**CABMV, Potyvirus**)

DAS-ELISA RT-0417  
Positive control PC-0396  
Negative control NC-0396

***Cowpea mild mottle virus (CPMMV, Carlavirus)***

DAS-ELISA RT-0907  
Positive control PC-0907  
Negative control NC-0907

***Cowpea mosaic virus (CPMV, Comovirus)***

DAS-ELISA RT-0012  
Positive control PC-0074  
Negative control NC-0074

***Cowpea mottle virus (CPMoV, Carmovirus)***

DAS-ELISA RT-0212  
Positive control PC-0263  
Negative control NC-0263

***Cowpea yellow mosaic virus (CPYMV, Comovirus)***  
(Regarded as an isolate of *Cowpea mosaic virus*.)

DAS-ELISA RT-0508  
Positive control PC-0477  
Negative control NC-0477

***Cucumber Bulgarian latent virus (CBLV, Tombusvirus)***

DAS-ELISA RT-1077  
Positive control PC-1077  
Negative control NC-1077

***Cucumber green mottle mosaic virus***  
(**CGMMV, Tobamovirus**)

DAS-ELISA RT-0190  
Positive control PC-0375  
Negative control NC-0375

***Cucumber leaf spot virus (CLSV, Aureusvirus)***

DAS-ELISA RT-0880  
Positive control PC-0880  
Negative control NC-0880

***Cucumber mosaic virus (CMV, Cucumovirus)***

DAS-ELISA

RT-0929

Positive control

PC-0929

Negative control

NC-0929

***Cucumber necrosis virus (CNV, Tombusvirus)***

DAS-ELISA

RT-0130

Positive control

PC-0313

Negative control

NC-0313

***Cucurbit aphid-borne yellows virus  
(CABYV, Polerovirus)***

TAS-ELISA

RT-1017-1017/1

Positive control

PC-1017

Negative control

NC-1017

Possible cross reaction with PABYV.

***Cucurbit chlorotic yellows virus (CCYV, Crinivirus)***

DAS-ELISA

RT-1020

Positive control

PC-1020

Negative control

NC-1020

***Cucurbit yellow stunting disorder virus  
(CYSDV, Crinivirus)***

DAS-ELISA

RT-0591

Positive control

PC-1144

Negative control

NC-1144

***Cymbidium mosaic virus (CymMV, Potexvirus)***

DAS-ELISA

RT-0334

Positive control

PC-0334

Negative control

NC-0334

***Cymbidium ringspot virus (CymRSV, Tombusvirus)***

DAS-ELISA

RT-0100

Positive control

PC-0272

Negative control

NC-0272

***Cynosurus mottle virus (CnMoV, Sobemovirus)***

DAS-ELISA

RT-0728

Positive control

PC-0728

Negative control

NC-0728

***East African cassava mosaic virus (EACMV, Begomovirus)***

see cassava mosaic geminiviruses

***Eggplant mosaic virus (EMV, Tymovirus)***

see *Andean potato latent virus (APLV)*

***Eggplant mottled dwarf virus***

**(EMDV, Nucleorhabdovirus)**

***Endive necrotic mosaic virus (ENMV, Potyvirus)***

***Erysimum latent virus (ErLV, Tymovirus)***

***Garlic common latent virus (GarCLV, Carlavirus)***

***Garlic virus A (GarV-A, Allexivirus)***

***Garlic virus B (GarV-B, Allexivirus)***

Cross reaction with *Garlic virus A*.

Positive control

PC-1149

DAS-ELISA

RT-0836

Positive control

PC-0031

Negative control

NC-0031

DAS-ELISA

RT-0753

Positive control

PC-0754

Negative control

NC-0754

DAS-ELISA

RT-1439

Positive control

PC-1433

Negative control

NC-1433

**NEW !**

DAS-ELISA

RT-0230

Positive control

PC-0449

Negative control

NC-0449

DAS-ELISA

RT-0618

Positive control

PC-1345

Negative control

NC-0618

DAS-ELISA

RT-0619

Positive control

PC-0619

Negative control

NC-0619



**Garlic virus C (GarV-C, Allxivirus)**Cross reaction with *Garlic Virus A*.

DAS-ELISA

RT-0620

Positive control

PC-0620

Negative control

NC-0620

**Grapevine Algerian latent virus (GALV, Tombusvirus)**

DAS-ELISA

RT-0788

Positive control

PC-0788

Negative control

NC-0788

**Grapevine fanleaf virus (GFLV, Nepovirus)**

DAS-ELISA

RT-0205

Positive control

PC-0084

Negative control

NC-0084

**Groundnut ringspot virus (GRSV, Tospovirus)**

DAS-ELISA

RT-0781

Positive control

PC-0205

Negative control

NC-0205

**Helenium virus S (HVS, Carlavirus)**

DAS-ELISA

RT-0153

Positive control

PC-0336

Negative control

NC-0336

**Impatiens necrotic spot virus (INSV, Orthotospovirus)**

TAS-ELISA

RT-0115-0117/1

Positive control

PC-0281

Negative control

NC-0281

**Iris yellow spot virus (IYSV, Orthotospovirus)**

DAS-ELISA

RT-0528

Positive control

PC-0528

Negative control

NC-0528

**Johnsongrass chlorotic stripe mosaic virus  
(JCSMV, Aureusvirus)**

DAS-ELISA

RT-0605

Positive control

PC-0605

Negative control

NC-0605

***Johnsongrass mosaic virus (JGMV, Potyvirus)***

DAS-ELISA

RT-0197

Positive control

PC-0803

Negative control

NC-0803

***Leek yellow stripe virus (LYSV, Potyvirus)***

DAS-ELISA

RT-0225

Positive control

PC-0451

Negative control

NC-0451

***Lettuce mosaic virus (LMV, Potyvirus)***

DAS-ELISA

RT-0886

Positive control

PC-0465

Negative control

NC-0465

***Lettuce ring necrosis virus (LRNV, Ophiovirus)***

DAS-ELISA

RT-0983

Positive control

PC-0983

Negative control

NC-0983

***Lettuce virus X (LeVX, Potexvirus)***

DAS-ELISA

RT-0904

Positive control

PC-0904

Negative control

NC-0904

***Maize chlorotic mottle virus (MCMV, Machlomovirus)***

DAS-ELISA

RT-1087

Positive control

PC-1087

Negative control

NC-1087

***Maize dwarf mosaic virus (MDMV, Potyvirus)***

TAS-ELISA

RT-0519-0662/2

Positive control

PC-0802

Negative control

NC-0802

***Melon necrotic spot virus (MNSV, Carmovirus)***

DAS-ELISA

RT-0131

Positive control

PC-0378

Negative control

NC-0378

***Mirafiori lettuce big-vein virus (MLBVV, Ophiovirus)***

DAS-ELISA	RT-0798
Positive control	PC-0798
Negative control	NC-0798

***Moroccan watermelon mosaic virus (MWMV, Potyvirus)***

DAS-ELISA	RT-0747
Positive control	PC-0747
Negative control	NC-0747

***Neckar river virus (NRV, Tombusvirus)***

DAS-ELISA	RT-0099
Positive control	PC-0270
Negative control	NC-0270

***Nemesia ring necrosis virus (NRNV, Tymovirus)***

Cross reaction with ScrMV.

DAS-ELISA	RT-0631
Positive control	PC-0631
Negative control	NC-0631

***Odontoglossum ringspot virus (ORSV, Tobamovirus)***

Indication for weak cross reaction with other tobamoviruses.

DAS-ELISA	RT-0187
Positive control	PC-0625
Negative control	NC-0625

***Okra mosaic virus (OkMV, Tymovirus)***

DAS-ELISA	RT-0092
Positive control	PC-0264
Negative control	NC-0264

***Onion yellow dwarf virus (OYDV, Potyvirus)***

DAS-ELISA	RT-0447
Positive control	PC-0447
Negative control	NC-0447

***Papaya ringspot virus (PRSV, Potyvirus)***

DAS-ELISA	RT-0805
Positive control	PC-0099
Negative control	NC-0099

***Paprika mild mottle virus (PaMMV, Tobamovirus)***

DAS-ELISA

RT-0606

Positive control

PC-0606

Negative control

NC-0606

***Passiflora latent virus (PLV, Carlavirus)***

DAS-ELISA

RT-0056

Positive control

PC-0222

Negative control

NC-0222

***Pea seed-borne mosaic virus (PSbMV, Potyvirus)***

DAS-ELISA

RT-0129

Positive control

PC-0301

Negative control

NC-0301

***Peanut mottle virus (PeMoV, Potyvirus)***

DAS-ELISA

RT-0158

Positive control

PC-0092

Negative control

NC-0092

***Peanut stunt virus (PSV, Cucumovirus)***Indication not to detect isolates from *Robinia* trees.

DAS-ELISA

RT-0160

Positive control

PC-0190

Negative control

NC-0190

***Pelargonium flower break virus (PFBV, Carmovirus)***

DAS-ELISA

RT-0068

Positive control

PC-0201

Negative control

NC-0201

***Pelargonium leaf curl virus (PLCV, Tombusvirus)***

Weak cross reaction with TBSV and PetAMV observed.

DAS-ELISA

RT-0067

Positive control

PC-0265

Negative control

NC-0265

***Pelargonium line pattern virus (PLPV, Tombusvirus)***

DAS-ELISA

RT-0094

Positive control

PC-0193

Negative control

NC-0193

***Pelargonium necrotic spot virus (PNSV, Tombusvirus)***

DAS-ELISA

RT-0188

Positive control

PC-0371

Negative control

NC-0371

***Pelargonium ringspot virus (PeIRSV, Pelarspovirus)***

TAS-ELISA

RT-0124-0224/1

Positive control

PC-0304

Negative control

NC-0304

***Pelargonium zonate spot virus (PZSV, Anulavirus)***

DAS-ELISA

RT-0090

Positive control

PC-0259

Negative control

NC-0259

***Pepino mosaic virus (PepMV, Potexvirus)***

Detects all strains.

DAS-ELISA

RT-1022

Positive control

PC-1022

Negative control

NC-1022

***Pepper mild mottle virus (PMMoV, Tobamovirus)***

DAS-ELISA

RT-0018

Positive control

PC-0165

Negative control

NC-0165

***Pepper mottle virus (PepMoV, Potyvirus)***

DAS-ELISA

RT-0186

Positive control

PC-0256

Negative control

NC-0256

***Pepper veinal mottle virus (PVMV, Potyvirus)***

DAS-ELISA

RT-0123

Positive control

PC-0257

Negative control

NC-0257

***Pepper yellow mosaic virus (PepYMV, Potyvirus)***

DAS-ELISA

RT-0127

Positive control

PC-0026

Negative control

NC-0026

***Peru tomato mosaic virus (PTV, Potyvirus)***

DAS-ELISA

RT-0183

Positive control

PC-0399

Negative control

NC-0399

***Petunia asteroid mosaic virus (PetAMV, Tombusvirus)***

Cross reaction with PLCV and weak cross reaction with TBSV observed.

DAS-ELISA

RT-0161

Positive control

PC-0339

Negative control

NC-0339

***Plantago asiatica mosaic virus (PIAMV, Potexvirus)***

DAS-ELISA

RT-1301

Positive control

PC-1202

Negative control

NC-1202

***Poinsettia latent virus (PnLV, Alphacryptovirus)***

DAS-ELISA

RT-0211

Positive control

PC-0629

Negative control

NC-0629

***Poinsettia mosaic virus (PnMV, Tymovirus)***

DAS-ELISA

RT-0162

Positive control

PC-0340

Negative control

NC-0340

***Poplar mosaic virus (PopMV, Carlavirus)***

DAS-ELISA

RT-0065

Positive control

PC-0341

Negative control

NC-0341

***Potato aucuba mosaic virus (PAMV, Potexvirus)***

DAS-ELISA

RT-1075

Positive control

PC-0007

Negative control

NC-0007

***Potato black ringspot virus (PBRV, Nepovirus)***

DAS-ELISA

RT-0045

Positive control

PC-0056

Negative control

NC-0056

**Potato leafroll virus (PLRV, Polerovirus)**

TAS-ELISA	RT-0741-060/11
DAS-ELISA	RT-1217
Positive control	PC-0842
Negative control	NC-0842

**Potato virus A (PVA, Potyvirus)**

DAS-ELISA	RT-0535
Positive control	PC-0535
Negative control	NC-0535

**Potato virus M (PVM, Carlavirus)**

Weak cross reaction with *Potato virus S* (PVS).

DAS-ELISA	RT-0667
Positive control	PC-0273
Negative control	NC-0273

**Potato virus S (PVS, Carlavirus)**

Cross reaction with isolates of other carlaviruses observed (PLV, HSV, CVB, KLV).

DAS-ELISA	RT-0547
Positive control	PC-1327
Negative control	NC-1327

**Potato virus V (PVV, Potyvirus)**

DAS-ELISA	RT-0232
Positive control	PC-0319
Negative control	NC-0319

**Potato virus X (PVX, Potexvirus)**

DAS-ELISA	RT-0126
Positive control	PC-0017
Negative control	NC-0017

**Potato virus Y (PVY, Potyvirus)**

DAS-ELISA	RT-0343
Positive control	PC-0343
Negative control	NC-0343

**Potato yellow dwarf virus (PYDV, Nucleorhabdovirus)**

DAS-ELISA	RT-0023
Positive control	PC-0719
Negative control	NC-0719

**Potato yellowing virus (PYV, Alfamovirus)**

DAS-ELISA

RT-0599

Positive control

PC-0706

Negative control

NC-0706

**"Potyviruses"**

Broad-spectrum reagent for detection of potyviruses.

For use in ACP/PTA-ELISA.

List of detectable species provided on request.

ACP/PTA-ELISA

RT-0573/1

Positive control

PC-0573

Negative control

NC-0573

**Prunus necrotic ringspot virus (PNRSV, Ilarvirus)**

DAS-ELISA

RT-0027

Positive control

PC-0962

Negative control

NC-0962

**Raspberry ringspot virus (RpRSV, Nepovirus)**

DAS-ELISA

RT-0193

Positive control

PC-0429

Negative control

NC-0429

**Ribgrass mosaic virus (RMV, Tobamovirus)**

see Turnip vein clearing virus (TVCV, Tobamovirus)

**Rice yellow mottle virus (RYMV, Sobemovirus)**

DAS-ELISA

RT-0732

Positive control

PC-0732

Negative control

NC-0732

**Rubus chlorotic mottle virus (RuCMV, Sobemovirus)**(Regarded as isolates of Sowbane mosaic virus,  
see SoMV RT-0913.)**Ryegrass mosaic virus (RGMV, Rymovirus)**

DAS-ELISA

RT-0558

Positive control

PC-1167

Negative control

NC-1167



***Saguaro cactus virus (SgCV, Carmovirus)***

DAS-ELISA

RT-0734

Positive control

PC-0734

Negative control

NC-0734

***Scrophularia mottle virus (ScrMV, Tymovirus)***

DAS-ELISA

RT-0870

Positive control

PC-0870

Negative control

NC-0870

***Shallot latent virus (SLV, Carlavirus)***

TAS-ELISA

RT-0514-0512/1

Positive control

PC-0425

Negative control

NC-0425

***Shallot yellow stripe virus (SYSV, Potyvirus)***

TAS-ELISA

RT-0452-0452/1

Positive control

PC-0452

Negative control

NC-0452

***Shallot virus X (ShVX, Allexivirus)***

DAS-ELISA

RT-1042

Positive control

PC-0622

Negative control

NC-0622

***Soilborne cereal mosaic virus (SBCMV, Furovirus)***

DAS-ELISA

RT-0552

Positive control

PC-0552

Negative control

NC-0552

***Soil-borne wheat mosaic virus (SBWMV, Furovirus)***

DAS-ELISA

RT-0748

Positive control

PC-0748

Negative control

NC-0748

***Sonchus yellow net virus (SYNV, Nucleorhabdovirus)***

DAS-ELISA

RT-0032

Positive control

PC-0052

Negative control

NC-0052

***Sorghum mosaic virus (SrMV, Potyvirus)***

TAS-ELISA

RT-0520-0220/1

Positive control

PC-0801

Negative control

NC-0801

***Southern bean mosaic virus (SBMV, Sobemovirus)***

DAS-ELISA

RT-0033

Positive control

PC-0100

Negative control

NC-0100

***Sowbane mosaic virus (SoMV, Sobemovirus)***

DAS-ELISA

RT-0913

Positive control

PC-0913

Negative control

NC-0913

***Soybean mosaic virus (SMV, Potyvirus)***

DAS-ELISA

RT-0543

Positive control

PC-0938

Negative control

NC-0938

***Spartina mottle virus (SpMV, unassigned Potyviridae)***

DAS-ELISA

RT-0970

Positive control

PC-0970

Negative control

NC-0970

***Sri Lankan cassava mosaic virus (SLCMV, Begomovirus)***see *Cassava mosaic geminiviruses****Streptocarpus flower breaking virus*****(SFBV, Tobamovirus)**

Indication for weak cross reaction with other tobamoviruses.

DAS-ELISA

RT-1058

Positive control

PC-1058

Negative control

NC-1058

***Sugarcane mosaic virus (SCMV, Potyvirus)***

DAS-ELISA

RT-0166

Positive control

PC-0731

Negative control

NC-0731

**Sweet potato chlorotic fleck virus (SPCFV, Carlavirus)**

DAS-ELISA	RT-0899
Positive control	PC-0899
Negative control	NC-0899

**Sweet potato mild mottle virus (SPMMV, Ipomovirus)**

DAS-ELISA	RT-0900
Positive control	PC-0900
Negative control	NC-0900

**Sweet potato virus 2 (SPV2, Potyvirus)**

DAS-ELISA	RT-1036
Positive control	PC-1036
Negative control	NC-1036

**Taro bacilliform virus (TaBV, Badnavirus)**

DAS-ELISA	RT-1158
Positive control	PC-1158
Negative control	NC-1158

**Tobacco etch virus (TEV, Potyvirus)**

DAS-ELISA	RT-0138
Positive control	PC-0308
Negative control	NC-0308

**Tobacco mild green mosaic virus (TMGMV, Tobamovirus)**

Indication for very weak cross reaction with other tobamoviruses.

DAS-ELISA	RT-0887
Positive control	PC-0887
Negative control	NC-0887

**Tobacco mosaic virus (TMV, Tobamovirus)**

Improved ELISA for the specific detection of TMV, including Ohio III and Ohio V strains.

DAS-ELISA	RT-1065
Positive control	PC-0107
Negative control	NC-0107

**Tobacco necrosis virus (TNV, Alphanecrovirus)**

Detection of TNV-A and TNV-D.

DAS-ELISA	RT-1221
Positive control	PC-0197
Negative control	NC-0197

***Tobacco necrosis virus A (TNV-A, Alphanecrovirus)***

DAS-ELISA

RT-0170

Positive control

PC-0186

Negative control

NC-0186

***Tobacco necrosis virus D (TNV-D, Alphanecrovirus)***

DAS-ELISA

RT-0168

Positive control

PC-0192

Negative control

NC-0192

***Tobacco rattle virus (TRV, Tobravirus)***

DAS-ELISA

RT-0208

Positive control

PC-0354

Negative control

NC-0354

***Tobacco ringspot virus (TRSV, Nepovirus)***

DAS-ELISA

RT-0189

Positive control

PC-0236

Negative control

NC-0236

***Tobacco streak virus (TSV, Ilarvirus)***

DAS-ELISA

RT-0903

Positive control

PC-0615

Negative control

NC-0615

***Tobacco vein banding mosaic virus (TVBMV, Potyvirus)***

DAS-ELISA

RT-0173

Positive control

PC-0721

Negative control

NC-0721

***Tomato aspermy virus (TAV, Cucumovirus)***

DAS-ELISA

RT-0107

Positive control

PC-0220

Negative control

NC-0220

***Tomato black ring virus (TBRV, Nepovirus)***

DAS-ELISA

RT-1220

Positive control

PC-0070

Negative control

NC-0070

**Tomato brown rugose fruit virus**  
(ToBRFV, Tobamovirus)

Cross reaction with isolates of TMV, ToMMV, ToMV, BPeMV and other tobamoviruses possible.

DAS-ELISA

Positive control

Negative control

RT-1236

PC-1236

NC-1236

The use of these products may infringe patents. Please check accordingly.

ToBRFV is regarded as quarantine virus in many countries and would require a permit/LoA for the positive control. *Tobacco mosaic virus* (TMV) positive control PC-0107 can be used instead.

**Tomato bushy stunt virus (TBSV, Tombusvirus)**

Weak cross reaction with PLCV observed.

DAS-ELISA

Positive control

Negative control

RT-0098

PC-0268

NC-0268

**Tomato chlorosis virus (ToCV, Crinivirus)**

DAS-ELISA

Positive control

Negative control

RT-1023

PC-1242

NC-1242

**Tomato leaf curl New Delhi virus**  
(ToLCNDV, Begomovirus)

DAS-ELISA

Positive control

Negative control

RT-1109

PC-1109

NC-1109

**Tomato mosaic virus (ToMV, Tobamovirus)**

Strong cross reaction with some TMV and ToMMV isolates and indication for weak cross reaction with other tobamoviruses.

DAS-ELISA

Positive control

Negative control

RT-0104

PC-0135

NC-0135

**Tomato mottle mosaic virus (ToMMV, Tobamovirus)**

Cross reaction with TMV, ToMV and ToBRFV and may cross react with other tobamoviruses

DAS-ELISA

Positive control

Negative control

RT-1267

PC-1267

NC-1267

**Tomato ringspot virus (ToRSV, Nepovirus)**

TAS-ELISA

Positive control

Negative control

RT-0071-0697/1

PC-0049

NC-0049

**Tomato spotted wilt virus (TSWV, Orthotospovirus)**

Weak cross reaction with TCSV, CSNV and ANSV.

TAS-ELISA

Positive control

Negative control

RT-0105-0106/3

PC-0182

NC-0182

**Tomato yellow ring virus (TYRV, Orthotospovirus)**

Synonymous with "tomato yellow fruit ring virus".

Cross reaction with PolRSV.

DAS-ELISA

Positive control

Negative control

RT-0526

PC-0526

NC-0526

**Tomato yellow leaf curl Thailand virus**

(TYLCTHV, Begomovirus)

TAS-ELISA

Positive control

Negative control

RT-0952-0952/2

PC-0952

NC-0952

**Tomato yellow leaf curl Sardinia virus**

(TYLCSV, Begomovirus)

see *Tomato yellow leaf curl virus* (TYLCV)

**Tomato yellow leaf curl virus (TYLCV, Begomovirus)**

Detection of TYLCV and TYLCSV.

Begomovirus ELISA control, does not contain TYLCV.

TAS-ELISA

Positive control

Negative control

RT-0588-0546/2

PC-1271

NC-1271

**Tomato yellow leaf curl virus (TYLCV, Begomovirus)**

Does not detect TYLCSV!

TAS-ELISA

Positive control

Negative control

RT-0588-0546/4

PC-1271

NC-1271

**Tospoviruses****Detection of the tospoviruses TSWV and INSV**

(mix of monoclonal antibodies)

Weak cross reaction with TCSV, ANSV and CSNV.

TAS-ELISA

Positive control

Negative control

RT-1154-1154/1

PC-1154

NC-1154

**Tomato yellow ring virus (TYRV, Orthotospovirus)**

Synonymous with "tomato yellow fruit ring virus"

Cross reaction with PolRSV.

DAS-ELISA

Positive control

Negative control

RT-0526

PC-0526

NC-0526

***Impatiens necrotic spot virus (INSV)***

TAS-ELISA

RT-0115-0117/1

Positive control

PC-0281

Negative control

NC-0281

***Watermelon silver mottle virus (WSMoV)***

DAS-ELISA

RT-0118

TAS-ELISA

RT-0118-0226/1

Positive control

PC-0283

Negative control

NC-0283

(Weak) cross reaction with

- *Capsicum chlorosis virus* (CaCV)
- *Groundnut bud necrosis virus* (GBNV)
- *Watermelon bud necrosis virus* (WBNV)

***Iris yellow spot virus (IYSV, Orthotospovirus)***

DAS-ELISA

RT-0528

Positive control

PC-0528

Negative control

NC-0528

***Turnip crinkle virus (TCV, Carmovirus)***

DAS-ELISA

RT-0175

Positive control

PC-0293

Negative control

NC-0293

***Turnip mosaic virus (TuMV, Potyvirus)***

DAS-ELISA

RT-0132

Positive control

PC-0104

Negative control

NC-0104

***Turnip ringspot virus (TuRSV, Comovirus)***

Cross reaction with RaMV.

DAS-ELISA

RT-0120

Positive control

PC-0355

Negative control

NC-0355

***Turnip vein clearing virus (TVCV, Tobamovirus)***

Strong cross reaction with RMV isolates and indication for weak cross reaction with other tobamoviruses.

DAS-ELISA

RT-0029

Positive control

PC-0148

Negative control

NC-0148

**Turnip yellows virus (TuYV, Polerovirus)**

can be reliably detected with our *Beet western yellows virus* (BWYV) antiserum (RT-0049).

Positive control

PC-1209

**Turnip yellow mosaic virus (TYMV, Tymovirus)**

DAS-ELISA

RT-0125

Positive control

PC-0299

Negative control

NC-0299

**Ugandan cassava brown streak virus (UCBSV, Ipomovirus)**

see Cassava brown streak disease (CBSD)

**Viola mottle virus (VMoV, Potexvirus)**

DAS-ELISA

RT-0080

Positive control

PC-0224

Negative control

NC-0224

**Watermelon chlorotic stunt virus**

**(WmCSV, Begomovirus)**

TAS-ELISA

RT-0830-0830/1

Positive control

PC-0830

Negative control

NC-0830

**Watermelon mosaic virus (WMV, Potyvirus)**

DAS-ELISA

RT-0203

Positive control

PC-0394

Negative control

NC-0394

**Watermelon silver mottle virus**

**(WSMoV, Orthotospovirus)**

TAS-ELISA

RT-0118-0226/1

Positive control

PC-0283

DAS-ELISA

RT-0118

Positive control

PC-0283

Negative control

NC-0283

**Wheat spindle streak mosaic virus**

**(WSSMV, Bymovirus)**

DAS-ELISA

RT-0541

Positive control

PC-0541

Negative control

NC-0541



***Wheat streak mosaic virus (WSMV, Tritimovirus)***

DAS-ELISA	RT-0544
Positive control	PC-0356
Negative control	NC-0356

***White clover mosaic virus (WCIMV, Potexvirus)***

DAS-ELISA	RT-0837
Positive control	PC-0310
Negative control	NC-0310

***Wild potato mosaic virus (WPMV, Potyvirus)***

DAS-ELISA	RT-0089
Positive control	PC-0248
Negative control	NC-0248

***Xanthomonas vasicola pv. musacearum (Xvm)***

Causing banana *Xanthomonas* wilt (BXW).

Not covered by the scope of our accreditation.

DAS-ELISA	RT-1039
Positive control	PC-1039
Negative control	NC-1039

***Yam mild mosaic virus (YMMV, Potyvirus)***

DAS-ELISA	RT-1038
Positive control	PC-1214
Negative control	NC-1214

***Yam mosaic virus (YMV, Potyvirus)***

DAS-ELISA	RT-1142
Positive control	PC-1142
Negative control	NC-1142

***Yam spherical virus (YSV, Aureusvirus)***

DAS-ELISA	RT-0517
Positive control	PC-0517
Negative control	NC-0517

***Youcai mosaic virus (YMoV, Tobamovirus)***

Cross reaction with TVCV and indication for weak cross reaction with other tobamoviruses.

DAS-ELISA	RT-0527
Positive control	PC-0527
Negative control	NC-0527

***Zantedeschia mosaic virus (ZaMV, Potyvirus)***

Regarded as strain of KoMV.

DAS-ELISA

RT-1037

Positive control

PC-1030

Negative control

NC-1030

***Zucchini yellow fleck virus (ZYFV, Potyvirus)***

DAS-ELISA

RT-1248

Positive control

PC-1248

Negative control

NC-1248

***Zucchini yellow mosaic virus (ZYMV, Potyvirus)***

DAS-ELISA

RT-0234

Positive control

PC-0466

Negative control

NC-0466

***Zygocactus virus X (ZyVX, Potexvirus)***

DAS-ELISA

RT-0145

Positive control

PC-0559

Negative control

NC-0559

All orders from Leibniz Institute DSMZ GmbH require that you have read and accept the DSMZ GmbH “Terms & Conditions” (see <https://www.dsmz.de/terms.html>) and understand all of the obligations therein.

Please order preferably via our webshop ([www.dsmz.de](http://www.dsmz.de)), or by email ([plantvirus@dsmz.de](mailto:plantvirus@dsmz.de)) or fax +49 (0) 531-2616-455. We will process your order as soon as possible.

**Attention:** Our ordering processes have recently changed! All non-web shop orders (email or fax) are required to submit a signed order form including the signed “Agreement Terms & Conditions (MTA)”. This can be found at the last two pages of this catalogue or downloaded from our website as pdf.

All orders should state the product code, name and quantity of the required item in order to avoid errors and delay.

Note: The DSMZ requires that you place your first order using your official business paper either by email or fax, with your legally binding signature, giving full details of your postal address, contact person, telephone, and email. Further orders can be placed using our webshop, the order form (to be found at the end of the catalogue) or by email.

Please refer to our online catalogue entries for additional legal notices and permissions/restrictions. The actual catalogue entry is valid at the time of utilization.

Positive controls in ELISA may vary in OD values according to plant virus species and strains, and plant tissue used. We strongly recommend Greiner medium binding ELISA plates, other plates could lead to increased background reactions and/or lower overall sensitivity. If observed, relevant cross-reactions with related viruses are listed.

### Import License

There may be restrictions or prohibitions of import of certain antibodies, conjugates, positive controls, virus inocula and other reagents into certain countries. It is the responsibility of the customer to check such necessities and/or to receive a permit to handle our products, and where necessary to provide the DSMZ with import documentation to accompany the product.

### Shipment

All items are shipped, unless otherwise advised by the customer, via FedEx or TNT at ambient temperature. Please note that we will not have any proof of delivery for standard non courier service air mail supplies, that they are not tracked and might take several weeks. Shipments by courier services (fast, tracked) are charged to the customer. Please provide clear shipping instructions when ordering

## Payment

Payments should be made according to the specification given on the invoice. **Amounts are expressed in Euro** and are payable immediately after receipt of goods and invoice.

All prices are net without the possibility of further discount. Value added tax (at present 7%) will be charged in addition, if applicable.

All orders placed are subject to a handling and banking charge depending on the amount of the invoice (see table below).

### Handling and banking charge (in Euro)

invoice amount (net)	charge for non EU members	charge for EU members
21 - 100 €	15 €	5 €
101 - 500 €	20 €	10 €
more than 500 €	30 €	15 €

**Please provide value added tax registration number (VAT) or local equivalent, e.g. IVA, TVA.**

Our VAT-No.: DE 114 815 269

#### **Payment to**

Leibniz-Institut DSMZ-Deutsche Sammlung von  
Mikroorganismen und Zellkulturen GmbH  
Inhoffenstraße 7 B  
38124 Braunschweig  
GERMANY

Braunschweigische Landessparkasse  
Account: 2 039 220  
Bank Code: 250 500 00  
IBAN DE22 2505 0000 0002 0392 20  
SWIFT NOLADE 2H

#### **Please indicate invoice number!**

The place of jurisdiction and performance is Braunschweig.



Plant Viruses and Reagents		
		Prices
Viruses and related materials	<b>Virus inocula</b> - freeze dried (for mechanically transmissible viruses only)	180.00 €
	- living plants/cuttings (for non-mechanically transmissible viruses only)	250.00 €
	- fresh leaf material (for mechanically transmissible viruses)	250.00 €
	<b>Controls</b> for ELISA, sufficient for 10 tests (final volume 2 ml)	20.00 €
	<b>Nucleic acid extracts</b> from virus-infected plant material	200.00 €
Antisera	<b>ELISA reagents</b> (IgG and IgG-AP conjugate; 200 µl test volume/well)	
	100 tests (1 set)	60.00 €
	≥500 tests (≥5 sets) of one antiserum	40.00 €
	≥1,000 tests (≥10 sets) of one antiserum	32.00 €
	≥5,000 tests (≥50 sets) of one antiserum	24.00 €
	≥100,000 tests (>100 sets) of one antiserum	22.00 €
	(e.g. 1,000 test = 10 sets = 320.00 €)	(per set)
Large quantities	Inquire	
	<b>Please note that the ordered sets of one antiserum are packed all in one vial!</b>	
Bulk orders	ELISA reagents <b>for potato virus</b> detection (PVA, PVM, PVS, PVX, PVY, PLRV) <b>10 sets</b> (1,000 tests), per virus	220.00 €
	Bulk orders for purified polyclonal and monoclonal antibodies and ELISA reagents	Inquire

**The following products and services are not covered by the scope of our accreditation**

<b>Other Products and Services</b>		
		<b>Prices</b>
<b>Purified antibodies</b>	Polyclonal IgGs, 1mg (in 1 ml)	480.00 €
	Monoclonal antibodies, 1 ml	620.00 €
<b>Seeds</b>	Small bag of seeds	10.00 €
<b>Scientific services</b>	Next generation sequencing and bioinformatic analysis	Inquire
	Molecular virus diagnosis	Inquire
	Serological plant virus diagnosis	Inquire
	Identification and characterization of viruses and viroids	Inquire
	dsRNA analysis	Inquire
	Virus inoculum preparation	Inquire
	Preparation of comparative laboratory samples	Inquire
	Biological assays with plant virus indicator species	Inquire
	Establishment of diagnostic protocols and indexing routines	Inquire
	Plant virus resistance screening	Inquire
	Development of diagnostic procedures	Inquire
	Further analyses possible on request	Inquire
<b>Consultancy and Training</b>		Inquire

**Detailed protocols are available for download:**

[www.dsmz.de/catalogues/catalogue-plant-viruses-and-antisera/culture-technology.html](http://www.dsmz.de/catalogues/catalogue-plant-viruses-and-antisera/culture-technology.html)









**Material Transfer Agreement  
between DSMZ GmbH and the receiving customer**

Please sign and send to [plantvirus@dsmz.de](mailto:plantvirus@dsmz.de). Your order will NOT be processed until a signature is received.

- 1. Research purposes only.** Biological material may be used for research purposes only and is not for use in humans (including food or cosmetic preparations) or for clinical or veterinary purposes.
- 2. No distribution.** Biological material may not be distributed to a third party. Biological material can be used by members of the same laboratory or scientists working collaboratively on a defined project. For more information please see our Terms & Conditions.
- 3. Commercial use is prohibited.** Biological material purchased from the DSMZ GmbH cannot be used for commercial purposes except plant virus-related products intended for viral diagnostics. For material regulated by the Nagoya Protocol (i.e., with documents listed in the DSMZ Shop under “Nagoya Protocol Restrictions”), the customer must adhere to the conditions and terms in these documents. For all other material, commercial use of products is defined as using the material directly for the purpose of profit generation. Individual requests for commercial use of microorganisms or plant viruses can be considered on a case-by-case basis by DSMZ GmbH management.
- 4. Nagoya Protocol compliance.** The DSMZ is a [Registered Collection](#) under EU law, which means the customer does not need to seek Nagoya documents for our strains. In the microorganism and plant virus catalogues, under “Nagoya Protocol Restrictions”, some strains have associated files available for download. The customer shall download these documents, adhere to the provisions defined therein, and retain the documents for 20 years after the material is last used. Violating this obligation can lead to a fine of up to €50,000 from German or other Member State authorities. For all strains, we advise customers to print out the catalog page of each purchased strain. This information can be used in E.U. due diligence reporting requirements. All human, animal and plant cell lines held by the DSMZ GmbH are out of scope of the Nagoya Protocol.
- 5. Future publications.** If the customer publishes research results, the publication, poster, or slides should cite the original depositor of the material (found in the catalogue), the DSMZ unique identifier (DSM, ACC, PV, NC, AS, RT, or PC number) and the DSMZ GmbH as the supplier of the material. Any phenotypic or metadata on the ordered strain(s) downloaded from [BacDive](#) should cite the most recent *BacDive* publication.

\_\_\_\_\_  
Name (Block letters)

\_\_\_\_\_  
E-Mail and phone number

\_\_\_\_\_  
Title, Department

\_\_\_\_\_  
Signature, Date

Order # (DSMZ Use Only): \_\_\_\_\_





## **IMPRINT**

### PUBLISHER

Leibniz Institute DSMZ-German Collection of Microorganisms and Cell Cultures GmbH  
Inhoffenstr. 7B, 38124 Braunschweig, Germany

### PHOTO CREDITS

© DSMZ



## ORDERING AND INFORMATION

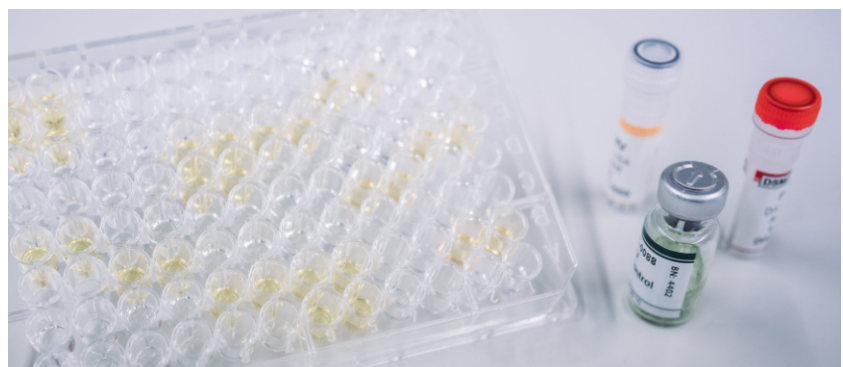
Leibniz Institute  
DSMZ-German Collection  
of Microorganisms and Cell Cultures GmbH

Plant Virus Department

📍 Inhoffenstr. 7B  
38124 Braunschweig  
Germany

☎ +49 (0) 531-2616-401/402

✉ [plantvirus@dsmz.de](mailto:plantvirus@dsmz.de)



*Leibniz*  
Leibniz  
Gemeinschaft



**DAkKS**  
Deutsche  
Akkreditierungsstelle  
D-RM-18324-01-00