

PRODUCT CATALOGUE 2014

Plant Pathogen and GMO diagnostics



ELISA, PCR and Nucleic Acid Hybridization kits

Contacts

Administration:

For general business and financial inquiries:

Marcos Amato: marcos.amato@agdia-biofords.com, Managing Director.

Sales and Marketing

For orders, product application and business development information:

Salima Berkani: salima.berkani@agdia-biofords.com, International Sales and Marketing Manager.

Corinne Prault: corinne.prault@agdia-biofords.com, Sales Manager.

Lucie Crouzilles: lucie.crouzilles@agdia-biofords.com, Sales Assistant.

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Product description

Agdia Biofords ELISA are available as complete kits (PathoScreen kits) and as reagent Set.

Reagent sets: includes concentrated antibodies, enzyme conjugate and ELISA plates. Reagents sets are available in four sizes, 96, 500, 1000 or 5000 testwells.

Pathoscreen® includes pre-coated ELISA plates which save time and offer extraordinary stability, enzyme conjugate, positive control and all required buffers. Kits are available in three sizes, 96, 288, and 480 testwells.

Coating or primary antibody: Polyclonal or monoclonal antibodies suitable for use in ELISA or other Immunoassays. Antibodies are purified and concentrated and available in volumes to process 500, 1000 or 5000 testwells.

Conjugated Antibody Polyclonal or monoclonal antibody conjugated to peroxidase or alkaline phosphatase enzyme for use in ELISA. All antibodies are conjugated at Agdia. Conjugated antibodies are purified and concentrated and available in volumes to process 500, 1000 or 5000 testwells.

Controls Positive and negative controls consist of lyophilized and treated plant extracts. Each control vial will reconstitute to 2 ml. When ordering negative controls, please specify a plant host.

Immunoblot assay a simple immunoassay for the detection of bacteria, in which samples are absorbed onto a membrane and then probed with antibodies. The immunoblot kit contains all the materials (Immunoblot membrane, Primary antibody, Substrate, Positive control, Wash buffer, Blocking buffer) necessary to perform 96 samples.

Immunofluorescence assay for Cms This assay detects *Clavibacter michiganensis* subsp *sepedonicus*, the causal agent of bacterial ringrot of potatoes. This assay was developed through the pioneering research of the Agriculture Canada research Station, Vancouver, B.C.

Nucleic acid Hybridization Assay A test that detects plant pathogens by probing for the genetic material of a pathogen. Nucleic Acid Kits include buffer for sample extraction and a membrane to spot up to 96 samples. The membrane is returned to Agdia for processing. The processing fee is included in the listed product price.

Phytodetek[®] kit a convenient ELISA kit for the quantitative determination of plant growth hormones. Phytodetek kits contain reagents necessary to perform a competitive quantitative immunoassay.

Materials and protocols for sample extraction are not included.

These kits contain: antibody-coated, 96 testwell, break-apart microtiter plate, tracer and diluent, wash buffer, PNP substrate and diluent, stop solution and plate sealers.

Phytodetek[®], monoclonal Antibody. Monoclonal antibody active against plant growth hormone. The purified and concentrated monoclonal antibody is lyophilized and available in a volume to process 96 testwells.

Phytodetek[®] tracer. A lyophilized powder of plant hormone conjugated to alkaline phosphatase. Phytodetek tracer is concentrated and available in a volume to process 32 testwells.

DIPECTA PECTINE: A new high performance pectin source for isolation of *Pectobacterium* and *Dickeya* spp. on Crystal Violet Pectate media and for enrichment on Liquid Enrichment Medium.

Pectobacterium and *Dickeya* produce pectinolytic enzymes able to degrade plant cell walls, thus resulting in soaking and tissue rotting in a large range of host plants.

Dr. Valérie Hélias and her team, in collaboration with INRA and with support from the French potato professional organizations GNIS, FN3PT, CNIPT and Arvalis, identified a new pectin source coded AG366, and developed from it two solid semi-selective Crystal Violet Pectate (CVP) media for isolation of *Pectobacterium* and *Dickeya*.

They also developed a Liquid Enrichment Medium useful to increase the concentration of these bacteria in culture. These results are reported in detail in the paper: V. Hélias, P. Hamon, E. Huchet, J. van der Wolf, and D. Andrivon, 2011. *Two new effective semi-selective crystal violet pectate (CVP) media for isolation of Pectobacterium and Dickeya. Plant Pathology (2011).*

Agdia-Biofords provides two different formats: 500g and 1kg.

Product catalogue

The catalog number is available on www.agdia.com.

The catalog number means:

- CAB: Coating antibody
- ECA: Conjugated Antibody, Alk. Phos.
- PSA: Pathoscreen kit, Alk. Phos.
- SRA: Reagent Set, Alk. Phos.
- LNC: Negative control
- LPC : Positive control

Viruses & Viroids

Virus	Acronym	Test Form	Product #
African Cassava Mosaic Virus	ACMV	DAS ELISA	73600
Alfafa Mosaic Virus	AMV	TAS ELISA (compound)	87601
Alstroemeria Mosaic virus	AIMV	DAS ELISA	39000
Alternanthera mosaic virus and Papaya mosaic virus	AltMV & PapMV	DAS ELISA	53400
American Plum Line Pattern virus	APLPV	DAS ELISA	32000
Andean Potato Latent virus	APLV	DAS ELISA	40200
Angelonia Flower Break Virus	AnFBV	DAS ELISA	36600
Apple Mosaic Virus	ApMV	DAS ELISA	30700
Arabis Mosaic Virus	ArMV	DAS ELISA	23203
Asparagus Virus 2	AV-2	ACP ELISA	71000
Banana Bract Mosaic Virus	BBrMV	DAS ELISA	24600
Banana Bunchy Top Virus	BBTV	TAS ELISA (compound)	24700
Barley Stripe Mosaic Virus	BSMV	DAS ELISA	19500
Barley Yellow Dwarf Virus - MAV	BYDV-MAV	DAS ELISA	26500
Barley Yellow Dwarf Virus - PAV	BYDV-PAV	TAS ELISA (compound)	27500
Bean Common Mosaic Virus	BCMV	ACP ELISA	46000
Bean Pod Mottle Virus	BPMV	DAS ELISA	46400
Beet Necrotic Yellow Vein Virus	BNYVV	ACP ELISA	16301
Beet Western Yellows Virus	BWVY	ACP ELISA	32100
Blueberry Leaf Mottle Virus	BLMoV	ACP ELISA	88001
Blueberry Scorch Virus	BIScV	DAS ELISA	19100
Blueberry Shock Virus	BIShV	ACP ELISA	19200
Blueberry Shoestring Virus	BSSV	DAS ELISA	19000
Broad Bean Wilt Virus 1 and 2	BBWV-1,2	DAS ELISA	46202
Brome Mosaic Virus	BMV	DAS ELISA	29300
Calibrachoa Mottle Virus	CbMV	DAS ELISA	83000
Carlavirus Group	Carla	PCR	93000
Carmovirus Group	Carmo	PCR	94000
Carnation Etched Ring Virus	CERV	ACP ELISA	34100
Carnation Latent Virus	CLV	TAS ELISA (compound)	34000
Carnation Mottle Virus	CarMV	DAS ELISA	68000
Carnation Necrotic Fleck Virus	CNFV	ACP ELISA	68500
Carnation Ringspot Virus	CRSV	DAS ELISA	68300
Cauliflower Mosaic Virus	CaMV	DAS ELISA	45600
Cereal Yellow Dwarf Virus - RPV	CYDV-RPV	TAS ELISA (compound)	28001
Chrysanthemum Chlorotic Mottle Viroid	CChMVd	Nucleic acid hybridization	07000

Virus	Acronym	Test Form	Product #
Chrysanthemum Stunt Viroid	CSVd	Nucleic acid hybridization	09000
Chrysanthemum Virus B	CVB	DAS ELISA	81000
Citrus Tristeza Virus	CTV	ImmunoPrint	78901
Citrus Tristeza Virus	CTV	TAS ELISA (compound)	78900
Cowpea Mosaic Virus	CPMV	DAS ELISA	24200
Cucumber Green Mottle Mosaic Virus	CGMMV	DAS ELISA	45701
Cucumber Mosaic Virus	CMV	TAS ELISA (compound)	44501
Cucumber Mosaic Virus – serogroup I	CMV I	TAS ELISA (compound)	44700
Cucumber Mosaic Virus – serogroup II	CMV II	TAS ELISA (compound)	44800
Cymbidium Mosaic Virus	CymMV	TAS ELISA (compound)	89500
Cymbidium Ringspot Virus	CymRSV	DAS ELISA	33001
Dasheen Mosaic Virus	DsMV	DAS ELISA	48000
Dianthovirus Group	Diantho	PCR	95000
Grapevine Fanleaf Virus	GFLV	DAS ELISA	27701
Geminiviruses (whitefly-transmitted)	Gemini	Nucleic Acid Hybridization	TSH WTG
Groundnut Ringspot Virus and Tomato Chlorotic Spot Virus	GRSV & TCSV	DAS ELISA	61000
Hibiscus Chlorotic Ringspot Virus	HCRSV	DAS ELISA	12300
High Plains Virus	HPV	DAS ELISA	17200
Hosta Virus X	HVX	DAS ELISA	16600
Illavirus group	llar	PCR	96100
Impatiens Necrotic Spot Virus	INSV	DAS ELISA	20500
Iris Yellow Spot Virus	IYSV	DAS ELISA	60500
Johnsongrass Mosaic Virus	JGMV	TAS ELISA (compound)	18300
Kalanchoe Latent Virus	KLV	DAS ELISA	62000
Kyuri Green Mottle Mosaic Virus	KGMMV	DAS ELISA	65001
Leek yellow Stripe virus	LYSV	DAS ELISA	20301
Lettuce Mosaic Virus	LMV	DAS ELISA	45801
Lily Symptomless Virus	LSV	DAS ELISA	62300
Maize Chlorotic Mottle Virus	MCMV	DAS ELISA	17001
Maize Dwarf Mosaic Virus	MDMV	DAS ELISA	18000
Maize Mosaic Virus	MMV	DAS ELISA	18900
Maize Streak Virus	MSV	DAS ELISA	18800
Maize Stripe Virus	MSpV	DAS ELISA	17300
Maize White Line Mosaic Virus	MWLMV	DAS ELISA	18200
Melon Necrotic Spot Virus	MNSV	DAS ELISA	12401
Nandina Mosaic Virus	NaMV	DAS ELISA	72900
Odontoglossum Ringspot Virus	ORSV	DAS ELISA	54301

Virus	Acronym	Test Form	Product #
Onion Yellow Dwarf Virus	OYDV	DAS ELISA	20101
Papaya Ringspot Virus	PRSV	DAS ELISA	53500
Peach Rosette Mosaic Virus	PRMV	DAS ELISA	87700
Peanut Stunt Virus	PSV	DAS ELISA	44600
Pelargonium Flower Break Virus	PFBV	DAS ELISA	90000
Pepino Mosaic Virus	PepMV	DAS ELISA	13001
Pepper Mild Mottle Virus	PMMoV	TAS ELISA (compound)	37501
Pepper Mottle Virus	PepMoV	DAS ELISA	38000
Plum Pox Virus	PPV	DAS ELISA	31505
Poinsettia Mosaic Virus	PnMV	DAS ELISA	90700
Potato Aucuba Mosaic Virus	PAMV	DAS ELISA	21000
Potato Latent Virus	PotLV	TAS ELISA (compound)	40501
Potato Leaf Roll Virus	PLRV	DAS ELISA	30002
Potato Spindle Tuber Viroid	PSTvd	Nucleic acid hybridization	08000
Potato Virus A	PVA	TAS ELISA (compound)	60000
Potato Virus M	PVM	DAS ELISA	50000
Potato Virus S	PVS	DAS ELISA	40000
Potato Virus T	PVT	TAS ELISA (compound)	40100
Potato Virus V	PVV	DAS ELISA	10100
Potato Virus X	PVX	DAS ELISA	10000
Potato Virus Y	PVY	TAS ELISA (compound)	20001
Potato Virus Y – Necrotic strain	PVY-n	TAS ELISA (compound)	26001
Potato Virus Y – C strain	PVY-c	TAS ELISA (compound)	20700
Potato Virus Y – O and C strains	PVY-o+c	TAS ELISA (compound)	20600
Potyvirus Group	Poty	ACP ELISA	27200
Prune Dwarf Virus	PDV	DAS ELISA	98700
Prunus Necrotic Ringspot Virus	PNRSV	TAS ELISA (compound)	30500
Raspberry Bushy Dwarf Virus	RBDV	TAS ELISA (compound)	58200
Raspberry Ringspot Virus	RpRSV	DAS ELISA	59401
Ribgrass Mosaic Virus	RMV	DAS ELISA	57601
Soil-Borne Wheat Mosaic Virus	SBWMV	TAS ELISA (compound)	42001
Southern Bean Mosaic Virus	SBMV	DAS ELISA	24100
Soybean Mosaic Virus	SMV	DAS ELISA	33300
Squash Mosaic Virus	SqMV	DAS ELISA	26400

Virus	Acronym	Test Form	Product #
Strawberry Latent Ringspot Virus	SLRSV	Testing service ELISA	TSE SLRSV
Strawberry Mild Yellow Edge Virus	SMYEV	TAS ELISA (compound)	14500
Sugarcane Bacilliform Virus	SCBV	DAS ELISA	72200
Sugarcane Mosaic Virus	SCMV	DAS ELISA	18100
Tobacco Etch Virus	TEV	DAS ELISA	49500
Tobacco Mosaic Virus	TMV	DAS ELISA	57400
Tobacco Rattle Virus	TRV	Testing service PCR	TSP TRV
Tobacco Ringspot Virus	TRSV	DAS ELISA	64001
Tobacco Streak Virus	TSV	TAS ELISA (compound)	25500
Tobamovirus group	Tobamo	PCR	95100
Tomato Aspermy Virus	TAV	DAS ELISA	37001
Tomato Bushy Stunt Virus	TBSV	DAS ELISA	45400
Tomato Mosaic Virus	ToMV	DAS ELISA	35400
Tomato Ringspot Virus	ToRSV	DAS ELISA	22001
Tomato Spotted Wilt Virus	TSWV	DAS ELISA	39300
Tospovirus Group	Tospo	PCR	98100
Turnip Mosaic Virus	TuMV	TAS ELISA (compound)	18700
Watermelon Mosaic Virus	WMV	DAS ELISA	54001
Watermelon Silver Mottle Virus and Groundnut Bud Necrosis Virus	WSMoV & GBNV	TAS ELISA (compound)	61500
Wheat Spindle Streak Mosaic Virus	WSSMV	DAS ELISA	43001
Wheat Streak Mosaic Virus	WSMV	DAS ELISA	47001
Zucchini Yellow Mosaic Virus	ZYMV	DAS ELISA	77700

Bacteria

Bacterium	Acronym	Test Form	Product #
<i>Acidovorax Avenae</i>	Aa	DAS ELISA	41900
<i>Burkholderia glumae</i>	Bg	ACP ELISA	62100
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	Cmm	DAS ELISA	44000
<i>Clavibacter michiganensis</i> subsp. <i>michiganensis</i>	Cmm	ELISA	44001
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>	Cms	DAS ELISA	70002
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>	Cms	IMF	70001
<i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i>	Cms	IMF Canadian Protocols	70004
<i>Clavibacter michiganensis</i> subsp. <i>Tessellarius</i>	Cmt	DAS ELISA	44100
<i>Corn Stunt Spiroplasma</i>	Css	DAS ELISA	16000
<i>Erwinia carotovora</i>	Ec	Immunoblot	TSI EC
<i>Pantoea stewartii</i>	Pstew	TAS ELISA (compound)	52000
<i>Pectobacterium and Dickeya spp</i>		Pectin media	AG366
<i>Pectobacterium atrosepticum</i>	Patro	TAS ELISA (compound)	80003
<i>Pectobacterium carotovorum</i>	Pc	Immunoblot	90500
<i>Pseudomonas syringae</i> pv. <i>phaseolicola</i>	Psph	DAS ELISA	53300
<i>Ralstonia solanacearum</i>	Rs	ELISA	33900
<i>Spiroplasma citri</i>	Sc	DAS ELISA	14700
<i>Xanthomonas</i>	Xan	ACP ELISA	14600
<i>Xanthomonas albilineans</i>	Xalb	ACP ELISA	71100
<i>Xanthomonas axonopodis</i> pv. <i>citri</i>	Xac	ACP ELISA	92200
<i>Xanthomonas axonopodis</i> pv. <i>phaseoli</i>	Xaph	DAS ELISA	36101
<i>Xanthomonas axonopodis</i> pv. <i>begoniae</i>	Xab	ACP ELISA	23700
<i>Xanthomonas campestris</i>	Xc	Immunoblot	69000
<i>Xanthomonas campestris</i> pv. <i>armoraciae</i>	Xcarm	ACP ELISA	88800
<i>Xanthomonas campestris</i> pv. <i>campestris</i>	Xcc	ACP ELISA	97000
<i>Xanthomonas axonopodis</i> pv. <i>citri</i>	Xac	ACP ELISA	92200
<i>Xanthomonas axonopodis</i> pv. <i>dieffenbachiae</i>	Xad	ACP ELISA	47600
<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>	Xoo	ACP ELISA	85000
<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i>	Xhp	ACP ELISA	32502
<i>Xanthomonas hortorum</i> pv. <i>pelargonii</i>	Xhp	DAS ELISA	32503
<i>Xylella fastidiosa</i>	Xf	DAS ELISA	34501

Fungi

Fungus	Acronym	Test Form	Product #
<i>Phytophthora</i>	Phyt	DAS ELISA	92601

Hormones

Growth hormone	Acronym	Test Form	Product #
Abscisic Acid	ABA	Phytodetek	09347
Dihydrozeatin Riboside	DHZR	Phytodetek	09349
Indole-3-acetic Acid	IAA	Phytodetek	09346
Isopentenyladenosine	IPA	Phytodetek	09351
trans - Zeatin Riboside	t-ZR	Phytodetek	09348

GMO

Trait	Acronym	Test Form	Product #
Bt-Cry1Ab/1Ac	Cry1Ab/1Ac	DAS ELISA	06200
Bt-Cry1F (Qualitative)	Bt-Cry1F	DAS ELISA	10301
Bt-Cry1F (Quantitative)	Bt-Cry1F	DAS ELISA	11700
Bt-Cry1F and Bt-Cry34Ab1	1F & 34Ab1	DAS ELISA	10900
Bt-Cry2A	Bt-Cry2A	DAS ELISA	05801
Bt-Cry34Ab1 (Qualitative)	Bt-Cry34Ab1	DAS ELISA	04500
Bt-Cry34Ab1 (Quantitative)	Bt-Cry34Ab1	DAS ELISA	11500
Bt-Cry3A	Bt-Cry3A	DAS ELISA	05900
Bt-Cry3Bb1 (See Yieldgard® Rootworm)	Bt-Cry3Bb1	DAS ELISA	06100
Bt-Cry3Bb1 and Bt-Cry1Ab	3Bb1 & 1Ab	DAS ELISA	11200
mBt-Cry3A	mBt-Cry3A	DAS ELISA	06700
Neomycin Phosphotransferase II	NPTII	TAS ELISA (compound)	73000
Roundup Ready® (CP4 EPSPS)	RR	DAS ELISA	74000