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Biofoundry

T E C H N O L O G I E S



DxBiotics proudly distributes products from Biofoundry Technologies, an emerging leader in biotechnology, offering high-quality specialty enzymes, reagents, and assays. Biofoundry is ISO 9001 and ISO 13485 certified, ensuring superior manufacturing standards and GMP workflows. Equipped with a state-of-the-art greenhouse facility for pathogen research and advanced climate-controlled zones, Biofoundry addresses the agriculture and biotech sectors with innovative solutions, including diagnostic kits, nucleic acid extraction, and pathogen detection tools tailored to plant research and breeding programs



Mini Prep Kits for Plant MolBio Applications

Cat No.	Product Name	Application	Pack Size
BF-NAPA-001	PlantAce® Plant gDNA Extraction Mini Kit	Highly optimized gDNA extraction from plant matrices, industry leading yields	50 Prep, 250 Prep
BF-NAPA-002	PlantAce® Plant Total RNA Extraction Mini Kit	Highly optimized RNA extraction from plant matrices, industry leading yields	50 Prep, 250 Prep
BF-NAPA-003	PlantAce® Plant Viral RNA Extraction Mini Kit	Highly optimized RNA extraction from plant matrices, especially pathogen workflows	50 Prep, 250 Prep
BF-NAPA-004	PlantAce® Fungal DNA Extraction Mini Kit	Highly optimized gDNA extraction from fungal samples	50 Prep, 250 Prep

Mini Prep Kits & Reagents for MolBio Applications

Cat No.	Product Name	Application	Pack Size
BF-NA-001	Plasmid DNA Extraction Mini Kit	Plasmid Extraction	50 Prep, 250 Prep
BF-NA-003	PCR Clean Up Kit	DNA Clean Up	50 Prep, 250 Prep
BF-NA-004	Gel Extraction Kit	DNA Clean Up	50 Prep, 250 Prep
BF-NA-005	Nucleotide Removal Kit	DNA Clean Up	50 Prep, 250 Prep
BF-NA-007	DNA Extraction Mini Prep Kit	DNA Isolation; Viral DNA Isolation	50 Prep, 250 Prep
BF-NA-008	Total RNA Extraction Mini Prep Kit	RNA Isolation; Specialized Cells RNA Isolation	50 Prep, 250 Prep
BF-PA-001	PlantAce® Taq PCR MasterMix (2X)	Conventional PCR	1 ml, 5ml, Bulk
BF-PA-009	PlantAce® OnePCR MasterMix (2X)	HotStart; High-Fidelity PCR	1 ml, 5ml, Bulk
BF-PA-010D	PlantAce® qPCR Elite Dye MasterMix (2X)	Dye Based qPCR (SYBR Green Etc.)	1 ml, 5ml, Bulk
BF-PA-010P	PlantAce® qPCR Elite Probe MasterMix (2X)	TaqMan Chemistry Compatible qPCR	1 ml, 5ml, Bulk

Mol Breeding / GE

PlantAce® PCR & Reverse Transcription PCR Kits

Cat No.	Product Name	Application	Pack Size
BF-PA-002	PlantAce® Direct PCR Kit	Routine PCR, Direct from Tissue	100 Rxn Enquire for High Throughput
BF-PA-003	PlantAce® First Strand cDNA Synthesis Kit	cDNA Library Prep	50 Rxn
BF-PA-004	PlantAce® One Step RT-PCR Kit	One-Step RT-PCR	50 Rxn

PlantAce® Gene Editing Tools & Enzymes

Cat No.	Product Name	Application	Pack Size
BF-PA-005	PlantAce® GE Mutation Detection Kit	DNA Endonuclease-Based Mutation Detection Kit	25 Rxn
BF-SA-018	PlantAce® Cas9 Enzyme	CRISPR	25ug, 100ug
BF-SA-012L	ScriptAce® Quick Ligation Kit	Cloning/Ligation	50 Rxn
BF-SA-012	ScriptAce® T4 DNA Ligase	Cloning/Ligation	50 KU

Restriction Enzymes

Cat No.	Product Name	Application	Pack Size
BF-RE-001	XbaI	Cloning	3KU, 15KU
BF-RE-002	EcoRI	Cloning	3KU, 15KU
BF-RE-003	NcoI	Cloning	3KU, 15KU
BF-RE-004	HindIII	Cloning	3KU, 15KU
BF-RE-005	PstI	Cloning	3KU, 15KU
BF-RE-006	NotI	Cloning	3KU, 15KU



Certified Reference Materials

Plant Pathogen Certified Reference Materials (1/2)

Acronym	Target	Synthetic PCR Positive Control	ELISA Positive Control	ELISA Negative Control
CMV	Cucumber mosaic virus	+	+	+
ToMMV	Tomato mosaic mottle virus	+		
ToMV	Tomato mosaic virus	+	+	+
ToBRFV	Tomato brown rugose fruit virus	+	+	+
TMV	Tobacco mosaic virus	+	+	+
BBTV	Banana bunchy top virus	+	+	+
PVA	Potato virus A	+	+	+
PVM	Potato virus M	+	+	+
PVS	Potato virus S	+	+	+
PVX	Potato virus X	+	+	+
PVY	Potato virus Y	+	+	+
PLRV	Potato leafroll virus	+	+	+

Certified Reference Materials

Plant Pathogen Certified Reference Materials (2/2)

Acronym	Target	Synthetic PCR Positive Control	ELISA Positive Control	ELISA Negative Control
PepMV	Pepino mosaic virus	+	+	+
PMMoV	Pepper mild mottle virus	+		
CGMMV	Cucumber green mild mottle virus	+	+	+
SqMV	Squash mosaic virus	+	+	+
MNSV	Melon necrotic spot virus	+	+	+
ToLCNDV	Tomato leaf curl New Delhi virus	+		
TYLCV	Tomato yellow leaf curl virus	+	+	+
TSV	Tobacco streak virus	+	+	+
CTV	Citrus tristeza virus	+	+	+
LMV	Lettuce mosaic virus	+	+	+
Poty	Potyvirus Group	+	+	+
ZYMV	Zucchini yellow mosaic virus	+	+	+
OELCV	Okra enation leaf curl virus	+		
YVMV	Yellow vein mosaic virus	+		
ChLCV	Chili leaf curl virus	+		
BFB	Acidovorax citrulli (Bacterial Fruit Blotch)	+	+	+

Certified Reference Materials

GMO Certified Reference Materials

Event	Associated Protein	Crop	Synthetic PCR Positive Control	ELISA Positive Control	ELISA Negative Control
MON 531	Cry1Ac/Ab	Cotton	+	+	+
MON 15985	Cry2Ab	Cotton	+	+	+
COT102	Vip3A	Cotton	+	+	+
MON 88913	CP4 EPSPS	Cotton	+	+	+
DAS-24236-5	Cry1F	Cotton	+	+	+
EE-1	Cry1Ac	Brinjal	+	+	+

Certified Reference Materials for Plant Genomic DNA

We offer a wide-range of plant reference material controls for scientists, including the following genomic DNA selection.

Apple	Broccoli	Chickpea	Lemon	Orange	Sorghum	Teak
Apricot	Blueberry	Corn	Lettuce	Pea	Spinach	Tobacco
Asparagus	Cabbage	Cotton	Lime	Pepper	Strawberry	Tomato
Banana	Cauliflower	Cucumber	Millet	Potato	Squash	Watermelon
Barley	Carrot	Fig	Marigold	Pomegranate	Sunflower	Wheat
Beans	Celery	Ginger	Onion	Radish	Sugarcane	Zucchini
Brinjal	Cherry	Kale	Okra	Rice	Soybean	Gourd

Plant Pathogen Testing

PlantAce® Pathogen IVD Kits: From Protein Screening to Confirmatory DNA/RNA Testing & Quantification.

PlantAce® Testing Kits for Plant Pathogen Detection

Pathogen	Acronym	Protein/Serological	Confirmatory Testing (DNA/RNA Based)		
		ELISA	End Point PCR (DNA)	End Point PCR (RNA; 1-Step)	RT-qPCR (Quantitative PCR)
		+		+	
Tomato mosaic mottle virus	ToMMV			+	
Tomato mosaic virus	ToMV	+		+	
Tomato brown rugose fruit virus	ToBRFV	+		+	+
Tobacco mosaic virus	TMV	+		+	
Banana bunchy top virus	BBTV	+	+		
Potato virus A	PVA	+		+	
Potato virus M	PVM	+		+	
Potato virus S	PVS	+		+	
Potato virus X	PVX	+		+	
Potato virus Y	PVY	+		+	
Potato leafroll virus	PLRV	+		+	
Pepino mosaic virus	PepMV	+		+	+
Pepper mild mottle virus	PMMoV	+		+	
Cucumber green mild mottle virus	CGMMV	+		+	
Squash mosaic virus	SqMV	+		+	
Melon necrotic spot virus	MNSV			+	
Tomato leaf curl New Delhi virus	ToLCNDV		+		
Tomato yellow leaf curl virus	TYLCV	+	+		
Tobacco streak virus	TSV	+		+	
Citrus tristeza virus	CTV	+		+	+
Lettuce mosaic virus	LMV	+		+	
Potyvirus Group	Poty	+		+	
Zucchini yellow mosaic virus	ZYMV	+		+	
Tobamovirus Group	Tobamo	+		+	
Okra enation leaf curl virus	OELCV		+		+
Yellow vein mosaic virus	YVMV		+		+
Chili leaf curl virus	ChLCV		+		
Begomovirus Group	Begomo	+	+		
Acidovorax citrulli (Bacterial Fruit Blotch)	BFB	+	+		

GMO and Bt Insect Resistance

Insect Bioassays

Toxin	Target Pest	Pack Size
Bt-Cry1Ac	Lepidoptera: Helicoverpa (Bollworm) / Spodoptera frugiperda (Fall Armyworm)	10 Trays
Bt-Cry2Ab	Lepidoptera: Helicoverpa (Bollworm) / Spodoptera frugiperda (Fall Armyworm)	10 Trays
Cry1F	Lepidoptera: Helicoverpa (Bollworm) / Spodoptera frugiperda (Fall Armyworm)	10 Trays
Vip3Aa	Lepidoptera: Helicoverpa (Bollworm) / Spodoptera frugiperda (Fall Armyworm)	10 Trays

GMO Detection

Trait	Qualitative ELISA	Quantitative ELISA	LFA
Cry1Ac	+	+	+
Cry2Ab	+	+	+
Cry1F	+		+
Vip3Aa	+		+
CP4 EPSPS	+	+	+
Multiplex Cry1/Cry2	+		+
Multiplex Cry1Ac + Cry2Ab + CP4EPSPS			+

Contact

Email: sales@dxbiotics.com

Phone: 8073280064/7026291246/8105936989

