

KRISHGEN BioSystems

Product Catalog 2010 - 2011



Agri Sciences

Biopharmaceutical

Cell Culture

Drug Discovery

Diagnostic



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Agri Sciences

GMO Assays

Cat No	Product Particulars	Type of ELISA	Pack Size	Price Euros
Cry1Ab/Cry1Ac				
KBA001D	Cry 1Ab/Cry1Ac ELISA Deluxe	qualitative	1x96wells	44.00
KBA001D-10	Cry 1Ab/Cry1Ac ELISA Deluxe	qualitative	10x96wells	412.00
KBA001D-20	Cry 1Ab/Cry1Ac ELISA Deluxe	qualitative	20x96wells	808.00
KBA001S	Cry 1Ab/Cry1Ac ELISA Standard	qualitative	96wells	28.00
KBA001S-10	Cry 1Ab/Cry1Ac ELISA Standard	qualitative	10x96wells	268.00
KBA001S-20	Cry 1Ab/Cry1Ac ELISA Standard	qualitative	20x96wells	520.00
KBA002D	Cry 1Ab/Cry1Ac ELISA Deluxe	quantitative	96wells	60.00
KBA002D-10	Cry 1Ab/Cry1Ac ELISA Deluxe	quantitative	10x96wells	588.00
KBA002D-20	Cry 1Ab/Cry1Ac ELISA Deluxe	quantitative	20x96wells	1160.00
KBA002S	Cry 1Ab/Cry1Ac ELISA Standard	quantitative	96wells	52.00
KBA001S-10	Cry 1Ab/Cry1Ac ELISA Standard	quantitative	10x96wells	512.00
KBA001S-20	Cry 1Ab/Cry1Ac ELISA Standard	quantitative	20x96wells	1008.00
Cry 1Ab				
KBA003D	Cry 1Ab ELISA Deluxe	qualitative	1x96wells	44.00
KBA003D-10	Cry 1Ab ELISA Deluxe	qualitative	10x96wells	412.00
KBA003D-20	Cry 1Ab ELISA Deluxe	qualitative	20x96wells	808.00
KBA003S	Cry 1Ab ELISA Standard	qualitative	96wells	28.00
KBA003S-10	Cry 1Ab ELISA Standard	qualitative	10x96wells	268.00
KBA003S-20	Cry 1Ab/ ELISA Standard	qualitative	20x96wells	520.00
Cry1Ac				
KBA004D	Cry1Ac ELISA Deluxe	qualitative	1x96wells	44.00
KBA004D-10	Cry1Ac ELISA Deluxe	qualitative	10x96wells	412.00
KBA004D-20	Cry1Ac ELISA Deluxe	qualitative	20x96wells	808.00
KBA004S	Cry1Ac ELISA Standard	qualitative	96wells	28.00
KBA004S-10	Cry1Ac ELISA Standard	qualitative	10x96wells	268.00
KBA004S-20	Cry1Ac ELISA Standard	qualitative	20x96wells	520.00
KBA005D	Cry1Ac ELISA Deluxe	quantitative	1x96wells	60.00
KBA005D-10	Cry1Ac ELISA Deluxe	quantitative	10x96wells	588.00
KBA005D-20	Cry1Ac ELISA Deluxe	quantitative	20x96wells	1160.00
KBA005S	Cry1Ac ELISA Standard	quantitative	96wells	52.00
KBA005S-10	Cry1Ac ELISA Standard	quantitative	10x96wells	512.00
KBA005S-20	Cry1Ac ELISA Standard	quantitative	20x96wells	1008.00
Cry1c				
KBA006D	Cry1c ELISA Deluxe	qualitative	1x96wells	44.00
KBA006D-10	Cry1c ELISA Deluxe	qualitative	10x96wells	412.00
KBA006D-20	Cry1c ELISA Deluxe	qualitative	20x96wells	808.00
KBA006S	Cry1c ELISA Standard	qualitative	96wells	28.00
KBA006S-10	Cry1c ELISA Standard	qualitative	10x96wells	268.00
KBA006S-20	Cry1c ELISA Standard	qualitative	20x96wells	520.00

Agri Sciences

GMO Assays

Cat No	Product Particulars	Type of ELISA	Pack Size	Price Euros
Cry1F				
KBA007D	Cry1F ELISA Deluxe	qualitative	1x96wells	52.00
KBA007D-10	Cry1F ELISA Deluxe	qualitative	10x96wells	420.00
KBA007D-20	Cry1F ELISA Deluxe	qualitative	20x96wells	832.00
KBA007S	Cry1F ELISA Standard	qualitative	96wells	36.00
KBA007S-10	Cry1F ELISA Standard	qualitative	10x96wells	284.00
KBA007S-20	Cry1F ELISA Standard	qualitative	20x96wells	536.00
Cry2Ab				
KBA105D	Cry2Ab ELISA Deluxe	qualitative	1x96wells	44.00
KBA105D-10	Cry2Ab ELISA Deluxe	qualitative	10x96wells	412.00
KBA105D-20	Cry2Ab ELISA Deluxe	qualitative	20x96wells	808.00
KBA105S	Cry2Ab ELISA Standard	qualitative	96wells	28.00
KBA105S-10	Cry2Ab ELISA Standard	qualitative	10x96wells	268.00
KBA105S-20	Cry2Ab ELISA Standard	qualitative	20x96wells	520.00
Sundries				
KBAWB-01	Wash Buffer		120ml	6.50
KBAWB-02	Wash Buffer		1Ltr	60.00
KBAEXB-01	Extraction Buffer		500ml	6.50
KBAEXB-02	Extraction Buffer		1Ltr	8.00
KBASUB-01	Enzyme Substrate		11ml	16.00
KBASUB-02	Enzyme Substrate		1Ltr	160.00
KBASTOP	Stop Solution		11ml	3.20
KBASTOP	Stop Solution		1Ltr	320.00

One of the first GMO were transgenic crops containing a gene from *Bacillus thuringiensis* that coded for the protein crystals in Bt which are toxic to some insect larvae. The Bt gene was successfully inserted into the genome of several cash crops. The insertion of the Bt gene directly into the genome of crops allowed the crops to perpetually produce this Bt toxin in their own cells. This allowed constant insect resistance to transgenic Bt crops without the application of any pesticide dusts or sprays. Today, versions of Bt cotton, Bt corn, Bt rice and Bt potatoes etc are being grown all across the world.

We have developed immunoassays for detection of specific Bt proteins from sample matrices including leaf, seed and tissues.

Our **KRISHILISA™** ELISA is based on principal of sandwich ELISA. Analyte-specific antibody (capture antibody) is pre-coated onto a microplate. The sample is added and any analyte present is bound by the immobilized antibody. An enzyme-linked analyte-specific detection antibody binds to a second epitope on the analyte forming the analyte-antibody complex. Substrate is added and converted by the enzyme, thereby producing a colored product in direct proportion to the amount of analyte bound in the initial reaction (signal increases as concentration increases).

Biotechnology

Bioprocess Contamination Assays

Cat No	Product Particulars	Type of Assay	Pack Size	Price Euros
KBBP01	E-coli HCP ELISA		96 wells	400.00
KBBP02	Pichia Pastoris HCP ELISA		96 wells	400.00
KBBP03	CHO HCP ELISA		96 wells	400.00
KBBP04	Protein A ELISA		96 wells	320.00
KBBP05	SP 2/0 HCP ELISA		96 wells	400.00
KBBP06	Ovalbumin ELISA		96 wells	320.00
KBBP07	HSA ELISA		96 wells	240.00
KBBP08	IgG ELISA		96 wells	240.00
KBBP09	IgA ELISA		96 wells	240.00
KBBP08	Bovine Serum Albumin ELISA		96 wells	320.00

Recombinant pharmaceutical products can be contaminated by residual host cell proteins (HCPs) or other carry over contaminants. It is essential part of manufacturing of biopharmaceuticals to monitor these contaminants.

Host cell proteins produced by the host cell during cell culturing or fermentation can cause an immune response in patients. Their composition is extremely heterogeneous and dependent on the protein product and down-stream purification procedure used. The level of contaminating host cell proteins in the biopharmaceutical product must be quantitatively measured.

KRIBIOLISA™ ELISAs is an effort to provide these tools as aid to the biopharmaceutical industry after 2 years of in-house product development. These kits are manufactured by us using contaminants which are generic in nature.

KRIBIOLISA™ ELISAs is the bioprocess contamination products range from us. These are ELISA kit in 96 well format with convenience of break-apart strips.

Key Features

- Priced competitively; available with shorter lead times & good product support.
- ELISA with 8 x 12 break-apart strips
- Simple procedural steps for running the Assay.
- Results available within 3 hours hands-on time.

Cell Culture

Cell Assays (Viability/Proliferation/Cytotoxicity)

Cat No	Product Particulars	Type of Assay	Pack Size	Price Euros
CC1100	Kinetic Blue Assay	Colorimetric/ Fluorometric	100ml	240.00
CC1210	Penicillin / Streptomycin Solution		100ml	16.00
CC2100	Knock-Out Solution-1 Disinfectant (10X concentrated, not ready-to-use)		500ml 1L	200.00 340.00
CC2200	Knock-Out Solution-2 Disinfectant (10X concentrated, not ready-to-use)		500ml 1L	200.00 340.00
CC3110	Cell Stainers 300 micron 12"x12"		25 nos	112.00
CC3120	Cell Stainers 500 micron 12"x12"		25 nos	128.00

KineticBlue™ Fluorometric/Colorimetric Cell Viability Assay Kit offers a simple, rapid, reliable, sensitive, safe and cost-effective measurement of cell viability. Kinetic Blue™ detects cell viability by utilizing a blue and non-fluorescent dye resazurin, which is converted to a pink and fluorescent dye resorufin in response to chemical reduction of growth medium resulting from cell growth. Continued cell growth maintains a reduced environment while inhibition of growth maintains an oxidized environment.

Reduction related to growth causes the REDOX indicator to change from the oxidized (non-fluorescent, blue) form to the reduced (fluorescent, red) form. The fluorescent signal is monitored using 530-560 nm excitation wavelength and 590 nm emission wavelength. The absorbance is monitored at 570 nm and 600 nm. For optimal result, subtract background OD at 600 nm from OD at 570 nm. The fluorescent and colorimetric signal generated from the assay is proportional to the number of living cells in the sample.

The KineticBlue™ assay is designed to quantitatively measure the proliferation of various human and animal cell lines, bacteria and fungi.

Drug Discovery - Research

ImmunoAssays

Cat No	Product Particulars	Type of Assay	Pack Size	Price Euros
Streptavidin Coated Plates				
2000-02H	High Capacity Binding		2x96wells	32.00
2000-05H	High Capacity Binding		5x96wells	68.00
2000-02L	Low Capacity Binding		2x96wells	24.00
2000-05L	Low Capacity Binding		5x96wells	52.00
Human Cytokines				
KB1053	Human IFN-gamma ELISA		96wells	292.00
KB1062	Human IL-1 alpha ELISA		96wells	288.00
KB1063	Human IL-1 beta ELISA		96wells	288.00
KB 1064	Human IL-2 ELISA		96wells	288.00
KB 1065	Human IL-3 ELISA		96wells	292.00
KB 1066	Human IL-4 ELISA		96wells	292.00
KB 1067	Human IL-5 ELISA		96wells	292.00
KB 1068	Human IL-6 ELISA		96wells	288.00
KB 1069	Human IL-7 ELISA		96wells	312.00
KB 1070	Human IL-8 ELISA		96wells	428.00
KB 1071	Human IL-9 ELISA		96wells	428.00
KB 1072	Human IL-10 ELISA		96wells	312.00
KB 1074	Human IL-12 ELISA		96wells	428.00
KB 1075	Human IL-13 ELISA		96wells	292.00
KB 1077	Human IL-15 ELISA		96wells	428.00
KB 1079	Human IL-17 ELISA		96wells	292.00
KB1145	Human TNF-alpha ELISA		96wells	292.00
Mouse Cytokines				
KB2011	Mouse IFN-gamma ELISA		96wells	312.00
KB2013	Mouse IL-1 alpha ELISA		96wells	312.00
KB2019	Mouse IL-6 ELISA		96wells	288.00
KB2052	Mouse TNF-alpha ELISA		96wells	292.00
Rat Cytokines				
KB3004	Rat IFN-gamma ELISA		96wells	312.00
KB3005	Rat IL-1 alpha ELISA		96wells	312.00
KB3006	Rat IL-1 beta ELISA		96wells	312.00
KB3009	Rat IL-6 ELISA		96wells	312.00
KB3016	Rat TNF-alpha ELISA		96wells	312.00

Diagnosics


ImmunoAssays

Cat No	Product Particulars	Type of Assay	Pack Size	Price Euros
KB1967	VMA		96 tests	340.00
KB1967/2	VMA		48 tests	180.00

Catecholamines include dopamine (found mostly in the central part of the nervous system), norepinephrine (mainly in the adrenal medulla). They are stored as inactive complex. Released catecholamines, having a short half life, are taken up by synthetic nerve endings, or metabolized by the liver and kidney and excreted.

Vanillylmandelic acid (VMA) and 4-hydroxy-3-methoxy-mandelic acid (HMMA) are the end product of both epinephrine and norepinephrine catabolism. Quantitation of the acidic metabolites has long proven to be reliable diagnostics well as commonly used follow-up procedures for pheochromocytoma and other catecholamine producing tumors. The prevalence of pheochromocytoma is 0.1% to 0.2% of hypertensive patients. Pheochromocytomas have a long record of misdiagnosis due to the metabolic and cardiac and gastrointestinal symptoms that can mimic many other diseases. Undetected, or mistreated it can be fatal. However, since it is a surgical curable disease, early diagnosis by demonstration of the excess VMA excretion is critically important.

KRISHGEN VMA Assay kit is based on immunoenzyme reaction for sensitive and specific detection of VMA in urine samples. The assay is available in a 96well microtitre plate format.



In 2008 **KRISHGEN** launched its first product – the KineticBlue Cell Assay Kit. We have since launched over 20 new assays for many different analytes and several different species – human, mouse and rat.

Our ELISAs are used for measuring analytes for GMO Bt in agriculture, HCP and other analyte in the biopharmaceutical industry and cytokines for drug discovery research programs.

Our ELISA development team has evaluated and adopted several different parameters for developing these assays. Currently, our assays utilize colorimetric detection system. Our assays undergo stringent testing criteria, including component and kit stability, edge effect, linearity, recovery, intra- and inter-assay precision, drift, interference of sample matrices, and specificity (cross-reactivity and interference with related analyte).

These tests are performed over many months by several technicians to ensure that the assay will be reproducible both day to day and from lot to lot.

We strive to develop and manufacture the finest assays available in the market today.

KRISHILISA™

For agriculture GMO detection.

KRIBIOLISA™

For biopharmaceutical in-process and quality control.

KRISHGEN™ CYTOKINES

For detection of cytokines in research.

