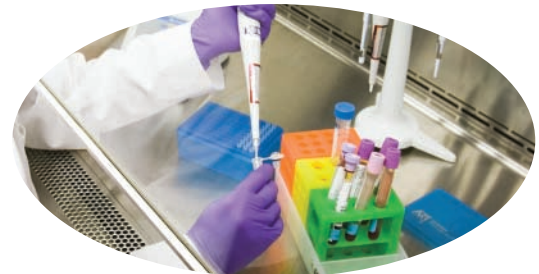




Transgenomic Product List



**Transgenomic's comprehensive offering of instruments,
consumables and services for automated
high sensitivity genetic variation and mutation analysis.**





Transgenomic, Inc. Master Product Price List - November 2011

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WAVE® SYSTEMS AND SUPPORT

WAVE SYSTEMS - 4500 SERIES			Description
Catalog Number	Prod Line	Name	
NAV-99-4500	4500	WAVE Nucleic Acid Fragment Analysis System Model 4500	Complete System includes: (1) HPLC Pump with internal degasser and low-pressure gradient system, (1) Triple Plate (capable) AutoSampler, (1) 96-well Sample Tray, (1) High precision L-2310T Cartridge Oven, (1) High Sensitivity UV Detector, (1) Computer Work Station w/ Navigator™ Software, and (1) DNASep® Cartridge
NAV-99-4500HT	4500	WAVE Nucleic Acid Fragment Analysis System Model 4500HT	Complete High Throughput System includes: (1) HPLC Pump with internal degasser and low-pressure gradient system, (1) Triple Plate (capable) AutoSampler, (2) 96-well Sample Trays, (1) High precision L-2310T Cartridge Oven, (1) High Sensitivity UV Detector, (1) Rapid Analysis package, (1) Computer Work Station w/ Navigator Software, and (1) DNASep HT Cartridge
NHS-99-4500	4500	WAVE "High Sensitivity" Nucleic Acid Fragment Analysis System Model 4500HT-HS	Complete High Throughput High Sensitivity System includes: (1) HPLC Pump with internal degasser and low-pressure gradient system, (1) Triple Plate (capable) AutoSampler, (2) 96-well Sample Trays, (1) High precision L-2310T Cartridge Oven, (1) High Sensitivity UV Detector, (1) Fluorescence Detector, (1) High Sensitivity Accessory, (1) Rapid Analysis package, (1) Computer Work Station w/ Navigator Software, and (1) DNASep HT Cartridge
WAVE 4500 SYSTEMS' OPTIONAL ACCESSORY MODULES & UPGRADES			
HSD-99-4500	4500	WAVE HSD High Sensitivity Detector (4500 Series)	Incorporates Fluorescence Detection and Intercalation Chemistries to Provide Sensitivity Enhancements for the Detection of ds- and ss- DNA and RNA without Fluorescently Labeled Primers. The HSD-99-4500 is comprised of the High Sensitivity Accessory and the Fluorescence Detector.
HSX-99-4500	4500	High Sensitivity Accessory (4500 Series)	Module to be Combined with the FDx Fluorescence Detector to Form the High Sensitivity Detection System
FDX-99-4500	4500	Fluorescence Detector (4500 Series)	Detector for High Sensitivity Detection of Fluorescently Labeled Nucleic Acids Separated with the WAVE Nucleic Acid Fragment Analysis System. Controlled by Navigator Software and fully compatible with the FCW-210, 200 and 180 Fragment Collectors. • WAVE® FDx - Fluorescence Detector. Wavelength range: 1ex, 200-850 nm; len, 250-900 nm; Fluorescence source: 150 W Xenon lamp
UP1019	4500	Upgrade from 4500 to 4500HT	Upgrade a WAVE Nucleic Acid Fragment Analysis System Model 4500 to Model 4500HT. Includes (1) Rapid analysis package and (1) DNASep HT Cartridge
FCW-99-0005	3500/4500	Fragment Collector FCW-180	Refurbished - ONE LEFT IN STOCK. Fully Automated Purification of Nucleic Acids with the WAVE Oligo System. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are not chilled. (Not for use with the WAVE MD System)
FCW-99-0001	3500/4500	Fragment Collector FCW-200	Refurbished - subject to availability. Fully Automated Purification of Nucleic Acids with the WAVE Nucleic Acid Fragment Analysis Systems. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are chilled to prevent evaporation. (Not for use with the WAVE MD System)
FCW-99-0210	3500/4500	Fragment Collector FCW-210	Fully Automated Purification of Nucleic Acids with the WAVE Nucleic Acid Fragment Analysis Systems. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are chilled to prevent evaporation. Note: Requires item 332014 to function in a 4500 series system. (Not for use with the WAVE MD System)
332014	4500	Analog Output Board	For 4500 model detectors. Provides Fragment Collector analog signal necessary for Fragment Collector operation on 4500 Systems.
470844	3500/4500	Fragment Collector Shelf	Shelf with Four Legs Designed to Support the Fragment Collector with Space Below for Other Items
492003	3500/4500/MD	WAVE Benchtable	Metallic Heavy Duty Bench for WAVE System (on wheels) CAPACITY: Top of Work Surface: 750 Lbs. Shelf: 100 Lbs.

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WAVE SYSTEMS - 3500 SERIES			
Catalog Number	Prod Line	Name	Description
NAV-99-3500	3500	WAVE Nucleic Acid Fragment Analysis System Model 3500	Refurbished - subject to availability. Complete System Includes: (1) Degasser, (1) HPLC Pump and Low-pressure Gradient System, (1) Dual Plate Autosampler, (1) 296 well tray, (1) L7310T Cartridge Oven, (1) UV Detector, (1) Computer Work Station w/ Navigator Software, and (1) DNASep Cartridge
NAV-99-3500HT-R	3500	WAVE Nucleic Acid Fragment Analysis System Model 3500HT	Refurbished - subject to availability. Complete System Includes a Complete Model 3500 System Plus (1) Rapid Analysis Package
NAV-99-3500SP-R	3500	WAVE Nucleic Acid Fragment Analysis System Model 3500SP	Refurbished - subject to availability. Complete System Includes: (1) Degasser, (1) HPLC Pump and Low-pressure Gradient System, (1) Single Plate Autosampler, (1) 96 well tray, (1) L7310T Cartridge Oven, (1) UV Detector, (1) Computer Work Station w/ Navigator Software, and (1) DNASep Cartridge
NAV-99-1510-R	3500	WAVE Microbial Analysis System	Refurbished - subject to availability. Complete System includes: (1) Degasser, (1) HPLC Pump with Low-pressure Gradient System, (1) Single Plate Autosampler w/o Chiller, (1) 96-well tray, (1) L7310T Cartridge Oven, (1) UV Detector, (1) Computer Work Station w/ Navigator Software, (1) DNASep HT Cartridge, and (1) Fragment Collector
WAV-99-0004-R	3500	WAVE Oligo System	Refurbished - subject to availability. Complete System includes: (1) Degasser, (1) HPLC Pump with Low-pressure Gradient System, (1) Dual Plate Autosampler, (1) Cartridge Oven, (1) UV Detector, (1) Computer Work Station w/ Navigator Software, Cartridge model and tray type must be specified when ordering.
WAVE 3500 SYSTEMS OPTIONAL ACCESSORY MODULES			
HSD-99-0002-R	3500	WAVE HSD High Sensitivity Detector (3500 Series)	Refurbished - subject to availability. Incorporates Fluorescence Detection and Intercalation Chemistries to Provide Sensitivity Enhancements for the Detection of ds- and ss- DNA and RNA without Fluorescently Labeled Primers. WAVE HSD consists of: • WAVE FDx - Fluorescence Detector Wavelength range: lex, 200-850 nm; lem, 250-900 nm Fluorescence source: 150 W Xenon lamp • WAVE HSX - High Sensitivity Accessory • Requires Navigator Software (not included)
HSX-99-0002	3500	High Sensitivity Accessory/ (3500 series)	Refurbished - subject to availability. Module to be combined with the FDx Fluorescence Detector to form the High Sensitivity Detection System
FCW-99-0005	3500/4500	Fragment Collector FCW-180	Refurbished - ONE LEFT IN STOCK. Fully Automated Purification of Nucleic Acids with the WAVE Oligo System. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are not chilled. (Not for use with the WAVE MD System)
FCW-99-0001	3500/4500	Fragment Collector FCW-200	Refurbished - subject to availability. Fully Automated Purification of Nucleic Acids with the WAVE Nucleic Acid Fragment Analysis Systems. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are chilled to prevent evaporation. (Not for use with the WAVE MD System)
FCW-99-0210	3500/4500	Fragment Collector FCW-210	Fully Automated Purification of Nucleic Acids with the WAVE Nucleic Acid Fragment Analysis Systems. Collected samples are of high purity and meet requirements for use in downstream molecular genetic analysis and genomic studies. Collection plates are chilled to prevent evaporation. (Not for use with the WAVE MD System)
470844	3500/4500	Fragment Collector Shelf	Shelf with Four Legs Designed to Support the Fragment Collector with Space Below for Other Items
492003	3500/4500/MD	WAVE Bench/T table	Metallic Heavy Duty Bench for WAVE System (on wheels) CAPACITY: Top of Work Surface: 750 Lbs. Shelf: 100 Lbs.
WAVE SYSTEM UPGRADES - 3500 SERIES			
UP-1027	3500	L7320T Turbo Oven	L7320T Turbo Oven - Upgrade for WAVE 3500 Models; must have Navigator Software
UP-1028	3500	L7320T Turbo Oven plus Navigator/Computer	L7320T Turbo Oven and Navigator Software plus Navigator-compatible Computer
UP-1003	3500	Upgrade from 3500 to 3500HT	Refurbished - subject to availability. Upgrade a 3500 system to a 3500HT system, includes Rapid Analysis package and Internal Accelerator; must have dual plate autosampler
UP-1008	3500	Upgrade of Internal Accelerator from 3500 to 3500A	Internal Accelerator Only; must have a dual plate autosampler
UP-1011	3500	Upgrade from 3500A to 3500HT	Rapid Analysis package; does not include internal accelerator
Navigator SOFTWARE			
NAV-99-1000	3500	Navigator System, Including Workstation	New Workstation, Navigator software, Oracle, GPIB, Network card, Installation and Orientation
NAV-99-2000	3500	Navigator Software, Field Installed	Includes Navigator Software, Installation and Orientation. It requires the customer to have the appropriate CPU.
NAV-99-4000	3500/4500/MD	Navigator User Expansion Pack, Optional	Provides the ability to add five additional licensed users to the Navigator system. User installable.



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WAVE SYSTEM SUPPORT PLANS		
SER-PRE-HT	3500/4500	HT Premier Support Plan
SER-PRE	3500/4500	Premier Support Plan
SER-PLN	3500/4500	Basic Service Plan
TRAINING	3500/4500/MID	Product Training
LABOR	3500/4500/MID	Service Labor, non contract
SER-PM3500	3500	Preventative Maintenance Visit - WAVE 3500 System
SER-PM4500	4500	Preventative Maintenance Visit - WAVE 4500 System
SER-MD COM-1YR	3500/4500/MID	Premium Access to MutationDiscovery.com® (per year)
WAVE SYSTEM MANUALS AND SUPPORT MATERIALS		
4800074	3500/MID	L-7200 Instruction Manual
4800075	3500	L-7200 Thermo Rack Inst Manual
4800076	3500	D-7000 Installation Manual
4800077	3500	D-7000 HPLC System Mgr. Manual
4800078	3500	D-7000 System Mgr.'s Users Manual
4800081	3500	L-7100 Pump Manual
480100	3500	L-7400 Instruction Manual
480106	FCW/200	FCW-200 Instruction Manual
480107	3500	L7485 Instruction Manual
4820022	FCW/80	FCW-180 Fragment Collector Operator's Manual
4820032	3500/4500/MID	Navigator Software Manual
4820037	3500	WAVE System Operator's Guide and Navigator Software Manual
4820054	3500	HSX-3500 Operator's Manual
4820056	4500	WAVE System Operator's Guide and Navigator Software Manual
672008	3500/4500/MID	Navigator Software Manual on CD
672014	3500	WAVE System Companion CD
672019	4500	WAVE System Resource CD
WAVE MD SYSTEMS AND SUPPORT		
WAVE MD SYSTEMS		
WMD-99-4000	Prod Line	Name
WMD-99-4000	MD	WAVE MD Model 4000 Plus Mutation Detection System
WMD-99-4000-R	MD	WAVE MD Model 4000 Plus Mutation Detection System - Refurbished
WAVE MD MANUALS AND SUPPORT MATERIAL		
482029	MD	WAVE MD System Operators Guide
672017	MD	WAVE MD System Companion CD
WAVE MD SUPPORT PLANS		
SER-MDPRE	MD	WAVE MD Premier Support Plan
SER-PMMD4000	MD	Preventative Maintenance Visit - WAVE MD 4000 System
WAVE MD SPARE PARTS (New or Refurbished)		
072001	MD	Hg Lamp with Mount
262004	MD	Pump Head Knurled Nut
282014	MD	1/4" Gland Nut
502017	MD	Replacement Seal Kit, Prime/Purge Valve
502008	MD	Check Valve Kit
502009	MD	Piston Assembly
502010	MD	Piston Seal Kit
532001	MD	Replacement Frit, Outlet Filter (UHMW, 5 micron)
642001	MD	Standard Flow Cell, 10 mm
Description		
Dual Pumping system, DNA Sep Cartridge, Navigator Software, High Precision Direct Coupled Oven, Computer System, Autosampler, UV Absorbance Detector, and WAVE MD Advantage Accelerator. Includes a 2 week consumable startup kit (Buffers A, B, C, D, Mutation Standards, Size Standards, and 100 Units of Optimase Polymerase).		
Refurbished - subject to availability. Dual Pumping system, DNA Sep Cartridge, Navigator Software, High Precision Direct Coupled Oven, Computer System, Autosampler, UV Absorbance Detector, and WAVE MD Advantage Accelerator. Includes a 2 week consumable startup kit (Buffers A, B, C, D, Mutation Standards, Size Standards, and 100 Units of Optimase Polymerase).		
WAVE MD™ Systems Manual and Navigator Software Manual in a 3-ring binder. Both manuals are shipped with all WAVE MD™ Help/Training CD for users of WAVE MD System model 4000		
One Preventative Maintenance visit per year, emergency visits and telephone hotline support. Preventative maintenance visit on WAVE MD 4000 System includes one day of labor, 1 x SP2017, and 1 x 540088. Travel costs are not included.		
Hg lamp with mount for WAVE MD		
metal pump head knurled nut for WAVE MD		
gland nut for WAVE MD for pump tubing		
seals for WAVE MD prime/purge valve		
check valve kit for WAVE MD (1 inlet/ 1 outlet)		
piston assembly for WAVE MD		
2x seal, 2x guide bushing, 2x back-up washer, seal tool, instructions, packing (for WAVE MD)		
Outlet Filter, UHMW, 5 micron, for WAVE MD		
Standard Flow cell, 10 mm, for WAVE MD		



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WAVE SYSTEMS' CONSUMABLES

WAVE SYSTEM CONSUMABLE KITS	Prod Line	Name	Description
WAVE SYSTEM CONSUMABLE KITS			
SP2011	3500	WAVE Optimized® Buffer Pak	12 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.), 4 bottles Syringe Wash Solution (2.5 L ea.), 4 bottles Solution D (2.5 L ea.), 1 bottle DNASEp Wash Solution (4 ml), 5 vials Mutation Standard 56 degree C, 3 vials Sizing Standard, 2 vials Mutation Standard 64 degree C, 4 vials Mutation Standard 70 degree C, 6 inline filters and 1 DNASEp Cartridge
SP2012	3500	WAVE Optimized HT Pak	12 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.), 4 bottles Syringe Wash Solution (2.5 L ea.), 4 bottles Solution D (2.5 L ea.), 1 bottle DNASEp Wash Solution (4 ml), 5 vials Mutation Standard 56 degree C, 3 vials Sizing Standard, 2 vials Mutation Standard 64 degree C, 4 vials Mutation Standard 70 degree C, 6 inline filters and 1 DNASEp HT Cartridge
SP2027	4500	WAVE Optimized HT Pak (4500HT Models)	8 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.), 8 bottles Solution D (2.5 L ea.), 1 bottle DNASEp Wash Solution (4 ml), 5 vials Mutation Standard 56 degree C, 3 vials Sizing Standard, 2 vials Mutation Standard 64 degree C, 6 inline filters and 1 DNASEp HT Cartridge
SP2028	4500	WAVE Optimized Pak (4500 Model)	8 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.), 8 bottles Solution D (2.5 L ea.), 1 bottle DNASEp Wash Solution (4 ml), 5 vials Mutation Standard 56 degree C, 3 vials Sizing Standard, 2 vials Mutation Standard 64 degree C, 4 vials Mutation Standard 70 degree C, 6 inline filters and 1 DNASEp HT Cartridge
SP2033	3500/4500	Ready to go WAVE Optimized KIT	12 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.) and 1 DNASEp Cartridge provided as Standard 70 degree C, 6 inline filters and 1 DNASEp Cartridge
SP2034	3500/4500	Ready to go WAVE Optimized- HT KIT	12 bottles Buffer A (2.5 L ea.), 12 bottles Buffer B (2.5 L ea.) and 1 DNASEp HT Cartridge provided as Standard 70 degree C, 6 inline filters and 1 DNASEp Cartridge
WAVE OPTIMIZED BUFFERS			
SP5890	3500/4500/MD	TEA Solution, 2 M, 6 x 200 ml	Case of 6 x 200 ml bottles of 2 M Triethylammonium Acetate solution
553401	3500/4500/MD	WAVE Optimized Buffer A - Case	4 x 2.5 liter bottles Buffer A
553402	3500/4500/MD	WAVE Optimized Buffer B - Case	4 x 2.5 liter bottles Buffer B
SP2025	3500/4500/MD	WAVE Optimized Buffers - Case	2 x 2.5 liter Buffer A + 2 x 2.5 liter Buffer B
553411	3500/MD	WAVE Optimized Syringe Wash Solution - Case	4 x 2.5 liter bottles Syringe Wash
553412	3500/4500/MD	WAVE Optimized Solution D - Case	4 x 2.5 liter bottles Solution D
553415	Oligo	WAVE Optimized HA Buffer A - Case	4 x 2.5 liter bottles HA Buffer A
553416	Oligo	WAVE Optimized HA Buffer B - Case	4 x 2.5 liter bottles HA Buffer B
553442	3500/4500	WAVE Optimized HS Staining Solution I - Case	4 x 250 mL bottles HS Staining Solution
554306	3500/4500/MD	DNASEp Wash Solution	4 mL bottle of DNASEp Wash Solution
WAVE SYSTEM CARTRIDGES			
DNA-99-3510	3500/4500/MD	DNASEp Cartridge	4.6 mm x 50 mm, for variety of DNA applications including Sizing and Mutation Detection, load capacity of 2µg
DNA-99-3710	3500/4500	DNASEp HT Cartridge	6.5 mm x 37 mm, for variety of DNA applications but especially for Rapid Mutation Detection, load capacity of 4µg
NUC-99-3550	3500/4500	OligoSep® Cartridge	4.6 mm x 50 mm, for Oligo Purification work only
NUC-99-3860	3500/4500	OligoSep Prep HC Cartridge	7.8 mm x 50 mm, for Oligo Purification, load capacity of 5000µg
RNA-99-3810	3500/4500	RNA-Sep® Prep Cartridge	7.8 mm x 50 mm, for variety of RNA applications, load capacity of 50µg total RNA -OR- 1000ng of specific RNA
WAVE SIZING AND MUTATION STANDARDS			
Catalog Number	Prod Line	Name	Description
560077	3500/4500/MD	WAVE Low Range Mutation Standard, 56 °C	209 bp Mutation Standard DYS Z71, 180 µL
560078	3500/4500/MD	WAVE DNA Sizing Standard	Sizing Standard for WAVE Systems (pUC18 HaeIII Digest), 180µL
562000	3500/4500/MD	WAVE Mid-Range Mutation Control Sample, 64 °C	Mid-Range Mutation Standard, 180 µL
562001	3500/4500/MD	WAVE High Range Mutation Standard, 70 °C	High-Range Mutation Standard, 180 µL
560079	3500/4500	WAVE Low Range Mutation Standard, 6-FAM labeled	6-FAM labeled 209 bp Mutation Standard DYSZ71 for Fluorescence Detector, 180 µl
700310	Oligo	WAVE Oligo Control Sample	1 OD each of lyophilized 20-mer and 21-mer oligonucleotides for Oligo System verification



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POLYMERASES AND RELATED REAGENTS

OPTIMASE AND REAGENTS	Prod Line	Name	Description
703005		Optimase [®] Polymerase Trial Pack	With both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution, 100 Units
SP2024		Optimase Polymerase with dNTPs	With dNTPs and both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution, 100 Units
703015		Optimase Buffer with Mg ²⁺	Buffer only
703020		Optimase Buffer without Mg ²⁺	Buffer only
703025		Mg ²⁺ Solution	Magnesium only
703030		Optimase Polymerase	With Mg ²⁺ containing buffer, 250 Units
703045		Optimase Polymerase	With Mg ²⁺ free buffer and separate Mg ²⁺ solution, 250 Units
703050		Optimase Polymerase PLUS Pack	2 x 250 Units of Polymerase. (Both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution)
703055		Optimase Polymerase PREMIUM Pack	5 x 250 Units of Polymerase. (Both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution)
703060		Optimase Polymerase ULTRA Pack	10 x 250 Units of Polymerase. (Both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution)
703076		10X GC Rich PCR Buffer	GC rich buffer containing 15 mM Mg ²⁺ , 1 mL
TRANSGENOMIC T-TAQ™ POLYMERASE			
703105		T-Taq DNA Polymerase (250 U)	Transgenomic Taq DNA Polymerase, 250 Units (5 Units/μL). Supplied with both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution (1.5 mL of each)
703110		T-Taq DNA Polymerase (1000 U)	Transgenomic Taq DNA Polymerase, 4 x 250 Units (5 Units /μL). Supplied with both Mg ²⁺ containing buffer and Mg ²⁺ free buffer and separate Mg ²⁺ solution (2 x 1.5 mL of each)
TRANSGENOMIC MAXIMASE™ POLYMERASE			
703205		Maximase Polymerase (100 U)	A blend of Transgenomic T-Taq and Optimase Polymerase, 100 Units (5 Units/μL). Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution (1.5 mL of each)
703245		Maximase Polymerase (250 U)	A blend of Transgenomic T-Taq and Optimase Polymerase, 250 Units (5 Units/μL). Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution (1.5 mL of each)
703250		Maximase Polymerase (500 U)	A blend of Transgenomic T-Taq and Optimase Polymerase, 2 x 250 Units (5 Units/μL). Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution (2 x 1.5 mL of each)
703260		Maximase Polymerase (2500 U)	A blend of Transgenomic T-Taq and Optimase Polymerase, 10 x 250 Units (5 Units/μL). Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution (7 x 1.5 mL of each)
SP2100		Maximase Polymerase with dNTPs	A Blend of Transgenomic T-Taq and Optimase Polymerase, 100 Units (5 Units/μL) with dNTPs. Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution
SP2101		Maximase Polymerase with dNTPs	A Blend of Transgenomic T-Taq and Optimase Polymerase, 200 Units (5 Units/μL) with dNTPs. Supplied with Mg ²⁺ free buffer and separate Mg ²⁺ solution
dNTPs			
704110		dATP	100 micromoles @ 100 mM (1 mL)
704210		dGTP	100 micromoles @ 100 mM (1 mL)
704310		dTTP	100 micromoles @ 100 mM (1 mL)
704410		dCTP	100 micromoles @ 100 mM (1 mL)
704501		Set of dNTPs	One vial each of A, G, T & C, 100 micromoles @ 100 mM each (4 x 1 mL)
705010		Premixed dNTP Set	100 micromoles at 25 mM each (1 mL)



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MUTATION DETECTION KITS AND REAGENTS

Catalog Number	Name	Description
MUTATION DETECTION KITS		
SURVEYOR@ MUTATION DETECTION KITS		
SURVEYOR Scan K-RAS Mutation Detection Kit RUO	SURVEYOR Scan K-RAS Mutation Detection Kit RUO	For Multiple Platforms (100 reactions)
710100	Exons 2 & 3 SURVEYOR Scan K-RAS Mutation Detection Kit RUO Exon 2	For Multiple Platforms (100 reactions)
710102	SURVEYOR Scan K-RAS Mutation Detection Kit	For WAVE HS Systems (100 reactions)
710101-CEIVD	CE-IVD Exon 2	
SURVEYOR Mutation Kits For WAVE@ and WAVE HS Systems		
706035	SURVEYOR PLUS Mutation Detection Kit - W25	For WAVE@ and WAVE HS Systems (25 reactions)
706030	SURVEYOR PLUS Mutation Detection Kit - W100	For WAVE@ and WAVE HS Systems (100 reactions)
SURVEYOR Mutation Kits For Universal Primer Fluorescent Capillary Electrophoresis		
706101	SURVEYOR Mutation Detection Kit - U32	For Universal Primer Fluorescent Capillary Electrophoresis (32 reactions). Includes FAM- and TAMRA-labeled Universal Primers. Suitable for use with ABI PRISM® Genetic Analyzers
706102	SURVEYOR Mutation Detection Kit - U96	For Universal Primer Fluorescent Capillary Electrophoresis (96 reactions). Includes FAM- and TAMRA-labeled Universal Primers. Suitable for use with ABI PRISM® Genetic Analyzers
706103	SURVEYOR Mutation Detection Kit - U384	For Universal Primer Fluorescent Capillary Electrophoresis (384 reactions). Includes FAM- and TAMRA-labeled Universal Primers. Suitable for use with ABI PRISM® Genetic Analyzers
SURVEYOR Mutation Kits For Universal Primer Fluorescent Capillary Electrophoresis with Maximase Polymerase and dNTPs		
SP2070	SURVEYOR, Universal Primer, 32 rxn / Maximase + dNTPs 50 rxn Kit (Contains 706101 and SP2100)	For Universal Primer Fluorescent Capillary Electrophoresis (32 reactions). Includes FAM- and TAMRA-labeled Universal Primers and proofreading polymerase blend and dNTPs. Suitable for use with ABI PRISM® Genetic Analyzers
SP2071	SURVEYOR, Universal Primer, 96 rxn / Maximase + dNTPs 100 rxn Kit (Contains 706102 and SP2101)	For Universal Primer Fluorescent Capillary Electrophoresis (96 reactions). Includes FAM- and TAMRA-labeled Universal Primers and proofreading polymerase blend and dNTPs. Suitable for use with ABI PRISM® Genetic Analyzers
SP2072	SURVEYOR, Universal Primer, 384 rxn / Maximase + dNTPs 500 rxn Kit (Contains 706103 and 5 x SP2101)	For Universal Primer Fluorescent Capillary Electrophoresis (384 reactions). Includes FAM- and TAMRA-labeled Universal Primers and proofreading polymerase blend and dNTPs. Suitable for use with ABI PRISM® Genetic Analyzers
560101	T4D-FTHR Matrix Standard, 32 Capillary	For Universal Primer Fluorescent Capillary Electrophoresis - Calibration standard for ABI PRISM® Genetic Analyzer capillaries
SURVEYOR Mutation Kits For LI-COR@ 4200 and 4300 Instruments		
706005	SURVEYOR Mutation Detection Kit - L25	For LI-COR@ 4200 and 4300 Instruments (25 reactions)
706000	SURVEYOR Mutation Detection Kit - L100	For LI-COR@ 4200 and 4300 Instruments (100 reactions)
SURVEYOR Mutation Kits For Standard Gel Electrophoresis		
706025	SURVEYOR Mutation Detection Kit - S25	For Standard Gel Electrophoresis (25 reactions)
706020	SURVEYOR Mutation Detection Kit - S100	For Standard Gel Electrophoresis (100 reactions)
Large Scale SURVEYOR Mutation Detection Kits		
706031	SURVEYOR PLUS Mutation Detection Kit - W1000	For WAVE@ and WAVE HS Systems (1,000 reactions)
706021	SURVEYOR Mutation Detection Kit - S1000	For Standard Gel Electrophoresis (1,000 reactions)
706001	SURVEYOR Mutation Detection Kit - L1000	For LI-COR@ 4200 and 4300 Instruments (1,000 reactions)
MITOSCREEN™ ASSAY KITS		
707001	MitoScreen Assay Kit -12 samples	Reagents for 12 Samples
707002	MitoScreen Assay Kit Plus - 24 samples	Reagents for 24 Samples

WAVE SYSTEMS SPARE PARTS (New or Refurbished)			
Catalog Number	Prod Line	Name	Description
Pump Parts			
280239	3500/4500	4 port Inlet Valve	4 port inlet valve for pump head one
300193	3500/4500	Pump Suction Valve Tubing	Larger ID tubing and fitting for Low Pressure Gradient. (connects to degasser); solenoid and fitting/ferrule included
300196	3500/4500	Drain Tubing for Purge	Waste tubing for drain/purge valve on pump.
470821	3500/4500	Flow Path Filter (UHMW PE)	PEEK flow path filter with UHMW PE frit for 3500 systems and drain valve of 4500 systems
472044	3500/4500	Low Volume Mixer	Low volume mixer for 3500HT and all 4500 models
500064	3500	Solenoid Valve	Single solenoid valve replacement for the L-7100 pump.
500067	3500/4500	Drain Valve Seal	Black Seal for the drain (purge) valve on the L-7100 pump
500072	3500/4500	Valve Packing (4-way)	Packing for the 4-way inlet valve on the L-7100 pump
500097	3500/4500	Check Valve Outlet	PEEK outlet (top) check valve for the L-7100 pump
500098	3500/4500	Check Valve Cartridge Kit (for optimized check	Set of 2 PEEK check valves for L-7100 pump - compatible with the optimized check valves only.
500099	4500	Check Valve Inlet	PEEK inlet (bottom) check valve for L-7100 pump
540085	3500/4500	Solenoid Valve	Single solenoid valve replacement for the L-2130 pump.
540086	3500/4500	Plunger	Plugs for the 4-way inlet valve on the pump
540089	3500/4500	Drain Valve Filter Packing	Plunger for the L7100 or L2130 pump
540090	3500/4500	Plunger Guide	White drain (purge) valve filter packing for the pump
540091	3500/4500	Priming Syringe	Plastic syringe and fitting for priming the pump
542000	3500	Standard Volume Static Mixer	Standard Volume (750 µL) mixer for L7100 for non-HT 3500 systems
542001	3500/4500	Piston Seal, UHMW PE	Standard Volume (750 µL) mixer for L7100 for a complete set
Autosampler Parts			
210264	3500/MID	Hex Head Screws 30 mm for Diluter Valve	Replacement screw for philips head diluter valve screws. Order 2 of this Catalog Number and 2 of Catalog Number 210265 for a complete set.
210265	3500/MID	Hex Head Screws 16mm for Diluter Valve	Replacement screw for Phillips head diluter valve screws. Order 2 of this Catalog Number and 2 of Catalog Number 210264 for a complete set.
210269	3500/MID	Thumbscrew for Autosampler Side Panel	Thumbscrew for side panel for L-7200 and L-7250 autosamplers
300194	3500/MID	Connection tube (needle to syringe)	500 µL tubing for needle to syringe connection
300195	3500/MID	Sample Loop 100 µL	100 µL stainless steel sample loop for L-7200 or L-7250 autosampler
300197	3500/4500/MID	Drain tubing for Waste	Large white waste tubing for the autosampler
300198	3500	Sample Loop 20 µL	20 µL stainless steel loop for the L-7200 or L-7250 autosampler
300199	3500	Sample Loop 10 µL	10 µL stainless steel loop for the L-7200 or L-7250 autosampler
302005	3500	Sample Loop 500 µL, Stainless Steel	500 µL stainless steel sample loop for the autosampler
302006	3500	Sample Loop 500 µL, PEEK	500 µL PEEK sample loop for the autosampler
302046	4500	Injection Loop, 1000µL	Injection loop (from injection valve to needle top) for 4500HT systems (trnl). PEEK/polyimide with fittings and ferrules
302047	4500	Syringe Valve Loop	500µL syringe valve loop (PEEK/body), from syringe valve to injection valve. L2200 autosamplers
302051	4500	Transfer Tubing, -Port to I-valve	PEEK/polyimide tubing leading from injection port to injection valve on the L2200 autosamplers. Includes fittings and ferrules
302053	4500	Injection Loop, 100µL	Injection loop (from injection valve to needle top) for 4500 (non-HT) systems. PEEK/Polyimide with fittings and ferrules
382048	3500/4500	Sample Holder, 96 Well	96 well autosampler plate
382050	3500	Sample Holder, 384 Well	384 well autosampler plate
390453	3500	Sample Tray, Oligo, 120 position	120 position sample tray for the WAVE Oligo System
442025	3500/MID	Syringe Feed Line with Fittings	2 x .96 position deep well tray holder for the WAVE Oligo System
450205	3500/MID	Needle	Tubing leading from degasser to syringe (fitting/ferrule included)
450207	3500/MID	Needle sleeve	Needle for the L-7200 and L-7250 autosampler
450251	3500/MID	Diluter Spring Support Bearing	Needle sleeve for L-7200 and L-7250 autosampler
450286	3500	Syringe, 100µL	Spring support bearing for the syringe valve on the L-7200 or L-7250
450324	3500/MID	Injection Port Transfer Tubing	100 µL syringe plus syringe-needle tubing for the L-7200 or L-7250
450327	3500	Sample Tray Holder, DMA, 2x96 position	Stainless steel tubing from injection port to injection valve for L-7200
450328	3500	Syringe Kit, 5 mL	Sample tray holder, 2x96 positions, for all L-7250 autosamplers except for those in Oligo Systems
450332	3500	Syringe Kit, 2.5 mL for L-7250	Syringe kit for the L-7250 Autosampler
450334	3500	Sample Loop, 2 mL, PEEK, for L-7250	2.5 mL syringe plus syringe-needle tubing for L-7250 Autosampler
500068	3500/MID	Injection Port Seal	2 mL PEEK sample loop for the L-7250 autosampler
500070	3500/MID	Diluter Valve Seal	Injection port seal for the L-7200 or L-7250 autosampler
500073	3500/MID	Injection Valve	Diluter (or syringe) valve seal for the L-7200 or L-7250 autosampler
502024	4500	Needle	Injection valve for the L-7200 or L-7250 autosampler
502025	4500	Needle Sleeve	Needle for sample pick up/delivery in L2200 autosampler
502026	4500	Injection Port Seal	Needle sleeve for holding needle in place in L2200 autosampler
502029	4500	Injection Valve Stator	Seal for the injection port site. L2200 autosampler
502030	4500	Syringe Valve Stator	Stainless steel outer piece of the injection valve. L2200 autosampler

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Autosampler Parts (cont.)			
Catalog Number	Prod Line	Name	Description
502046	4500	Injection Valve Seal	Seal inside the injection valve, L2200 autosampler
502047	4500	Syringe Valve Seal	Seal inside the syringe valve, L2200 autosampler
540084	3500/MMD	Diluter Valve Stator	Diluter (or syringe) valve stator for the L-7200 or L-7250 autosampler
540088	3500/4500/MMD	Syringe 0.5 mL	500 µL syringe for the autosampler
540117	3500/MMD	Isolation Seal	Isolation seal for L-7200 or L-7250
540118	3500/MMD	Rotor Seal, Injection Valve	Rotor seal for the injection valve on the L-7200 or L-7250 autosampler
540119	3500/MMD	Rebuild Kit - Rheodyne	Includes rotor seal & isolation seal with tools for the L2200 or L2250 injection valve
540120	3500/MMD	Rebuild Kit with Stator	Includes rotor, isolation seals and stator for the L2200 or L2250 injection valve
540123	3500/MMD	Injection Valve stator	Injection valve stator for L7200 or L7250 Autosampler
Oven Parts			
302020	3500	Preheat Coil, Polyimide PEEK, 2 m	Polyimide PEEK preheat coil for L-7300 series oven, 2 meters
302044	4500	Preheat Coil, Polyimide PEEK, 2 m	2 m PEEK/Poly preheat coil for 4500 series ovens and Turbo Ovens
302054	3500	Preheat Coil, Polyimide PEEK, 2 m	Polyimide PEEK preheat coil for L-7310T series oven, 2 meters
530011	3500/4500	Inline Filter, PEEK, 0.5 µm	0.5 µm inline filter (located prior to preheat coil in oven)
530016	3500/4500/MMD	Filter End Fitting, PEEK	0.5 µm fitting for the inline filter
UV Detector Parts			
070024	3500/4500	Deuterium Lamp, 1000 hours	Standard lamp for UV detector for 1000 hours
302028	3500	Flowcell Tubing Modification Kit	Polyimide inlet tubing (0.8 m, 0.008" ID) and PEEK outlet tubing (0.98 m, 0.01" ID) for the L7400 UV detector flowcell
302048	4500	Flowcell Tubing Modification Kit	Polyimide inlet tubing (0.8 m, 0.008" ID) and PEEK outlet tubing (0.98 m, 0.01" ID) for the L2200 UV detector flowcell plus fittings
450206	3500	Flowcell for UV Detector	Standard 10 mm flow cell for L7400 UV detector
450331	3500	Flow Cell Assembly, 0.5 mm for L-7400	Assembly of flow cell, housing & tubing for the L7400 UV detector for oligo applications
502031	4500	Flow Cell, Standard	Flow cell for UV detector L-2400
Fluorescence Detector/HSX Parts			
070030	3500/4500	Xenon Lamp, 150 hours	Standard lamp for Fluorescence detector for 150 hours
070031	3500/4500	Xenon Lamp, Long Life, 500 hours	Long life for Fluorescence detector for 500 hours
450284	3500	Flowcell for Fluorescent Detector	Standard flow cell for the L-7480 or L-7485 Fluorescence detector
502017	3500/4500	Pump Seal Kit	Pump seal for the HSX pump
Miscellaneous Parts			
162013	3500	GP1B Board & Cable	GP1B Board and cable for dc7100 and dc7600 computers (see 450179)
172002	3500/4500/MMD	Septa Strips	One cover fits a 96-well tray of 0.2 mL tubes
280082	3500/4500/MMD	Tee, 1/4 - 28, 05 hole, PEEK	PEEK Tee, 1/4 - 28
280229	3500/4500	Fittings with Ferrule	PEEK wing-nut type fittings with unattached ferrule
280230	3500/4500/MMD	Union	Black PEEK union
280248	3500/4500/MMD	Fitting, Fingertight, PEEK, 10-32	PEEK fittings with attached ferrules
282029	4500	Fingertight Fittings, Short	Short, PEEK fingertight fitting for L2200 autosampler valves
282035	3500/4500	Ferrule, PEEK, Natural	PEEK ferrule only that goes with wing-nut type fitting
300126	3500/4500/MMD	Tubing PFA Natural, .085 Id	Tubing for detector outlet extension or degasser
300190	3500	Tubing, PEEK, 0.007" ID, Yellow	PEEK tubing (0.007" ID, yellow), order 3 ft (0.9m) to connect outlet of inline mixer with the Autosampler
360120	3500	GP1B Cable (2.0 m)	Communications cable to connect workstation with D-7000 Interface Module
360125	3500/MMD	D-Line Cable (1 m)	Standard D-line for WAVE Systems, 1 meter long
450179	3500	GP1B Board	GP1B Board for other computer models (see 162013); cable not included
470849	FCW	48 Position Collection Tray	48 position deep well trays for the Fragment Collector
470856	FCW	96 pos. Deepwell Trays Adapter Plate	96 position deep well adapter plate for the Fragment Collector
530010	3500/4500/MMD	Solvent Inlet Filter	Inlet filter for buffers
SP2018	3500	Universal Preventative Maintenance Kit - 3500 Systems	Diluter spring support bearing, UMMW/PE Filter, drain valve seal, diluter valve seal, valve packing 4-way, drain valve filter packing, rheodyne rebuild kit, injection port seal, pump seals
SP3500	3500	WAVE 3500 Systems Service Plan Maintenance Kit	Complete maintenance kit for WAVE 3500 System. Contains 2 x SP2018 and 1 x 540088
SP2032	4500	Universal Preventative Maintenance Kit - 4500 Systems	UMMW/PE Filter, drain valve seal, valve packing 4-way, drain valve filter packing, injection valve seal, syringe valve seal, injection port seal, pump seals
SP4500	4500	WAVE 4500 Systems Service Plan Maintenance Kit	Complete maintenance kit for WAVE 4500 System. Contains 2 x SP2032 and 1 x 540088
SP2017	MD	Universal Preventative Maintenance Kit - WAVE MD 4000 Systems	UMMW/PE Filter, diluter spring support bearing, injection support seal, diluter valve seal, piston seal kit, rheodyne rebuild kit.
SP4000	MD	WAVE-MD 4000 Systems Service Plan Maintenance Kit	Complete maintenance kit for WAVE-MD 4000 System. Contains 1 x SP2017 and 1 x 540088
SP5906	3500	PEEK Tubing (5 ft)	Yellow PEEK tubing in 5 foot length (1.52 meters)
SP5917	3500/4500	Polyimide Peak tubing	Polyimide PEEK tubing 91 inches (2.3 meters)



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GLASSWARE		
400055	3500/4500MD	Solvent Bottle, 1 Liter
400056	3500/4500MD	Volumetric Flask, 250 ml
400057	3500/4500MD	Volumetric Flask, 1 Liter
400065	3500/4500MD	Volumetric Flask, 50 mL
400070	3500/4500MD	Solvent Bottle, 2 Liter
400071	3500/4500MD	Volumetric Flask, 500 ml
400072	3500/4500MD	Volumetric Flask, 2 Liter
400073	3500/4500MD	Volumetric Flask, 100 ml
TRANSMAT™ SILICONE SEALING MATS		
172024 (unit)		TransMat Silicone Sealing Mats - 96
172024 (case)		TransMat Silicone Sealing Mats - 96
172025 (unit)		TransMat Silicone Sealing Mats - 384
172025 (case)		TransMat Silicone Sealing Mats - 384

CYTOGENETICS AUTOMATED SYSTEMS AND SUPPORT

HANABI INSTRUMENTS		
Catalog Number	Prod Line	Name
HCMH-99-00P1-A		HANABI-P1 Metaphase Chromosome Harvester (US Version)
HCMH-99-00P1-B		HANABI-P1 Metaphase Chromosome Harvester (European version)
HCMH-99-00P1-A		HANABI-P11 Metaphase Chromosome Harvester (US Version)
HCMH-99-00P1-B		HANABI-P11 Metaphase Chromosome Harvester (European version)
HCMH-99-00P1-A		HANABI-P111 Metaphase Chromosome Harvester (US Version)
HCMH-99-00P1-B		HANABI-P111 Metaphase Chromosome Harvester (European version)
HCMH-99-00P1-A		HANABI-P1V Automated Spreader (US Version)
HCMH-99-00P1-B		HANABI-P1V Automated Spreader (European version)
HCMH-99-00P1-A		HANABI-P1V Automated Metaphase Spreader
HCMH-99-00P1-B		HANABI-P1V Automated Metaphase Spreader (European version)
HCMH-99-00P1-A		HANABI Metaphase Spreader, Standard Model
HCMH-99-00P1-B		HANABI Metaphase Spreader, Tilt Model
HCMH-99-00P2		HANABI Metaphase Spreader, Tilt Model
HANABI SUPPORT PLANS		
SER-HARV-PI		HANABI-P1 Metaphase Harvester Support Plan
SER-HARV		HANABI-P11 Metaphase Harvester Support Plan
SER-HARV-PII		HANABI-P111 Metaphase Harvester Support Plan
SER-SPRE-PIV		HANABI-P1V Metaphase Auto-Spreader Support Plan
SER-SPRE		HANABI Metaphase Spreader Support Plan
		A full instrument support plan for 1 year with at-supplier maintenance and repair when needed.