



4300 DNA Analyzer Product Catalog 2009

International Edition

LI-COR[®]

Biosciences

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LI-COR® Biosciences is a leader in the design and manufacture of systems for biotechnology, including instruments, software, and reagents for long read sequencing, microsatellites, AFLP®, cDNA AFLP®, TILLING®, Ecotilling, band extractions and protein imaging. These products encompass a variety of applications, from undergraduate training to drug discovery. LI-COR is a leading innovator in the development of infrared fluorescence labeling and detection systems for proteomic, molecular imaging, and genomic research.



4300 DNA Analysis System

LI-COR Biosciences is also a leader in the design and manufacture of instrument systems for plant biology and environmental research. LI-COR instruments for photosynthesis, carbon dioxide analysis, and light measurement are recognized worldwide for standard-setting innovation in plant science research and environmental monitoring.

Founded in 1971, the privately held company is based in Lincoln, Nebraska, with subsidiaries in Germany and the United Kingdom. LI-COR systems are used in more than 100 countries and are supported by a global network of distributors.

For more information, contact a LI-COR representative or distributor. You can find them at <http://www.licor.com/bio/distributors/index.jsp>

DNA ANALYZER SYSTEMS

<u>Part Number</u>	<u>Description</u>
4300-07	<p>4300S NEN® DNA Analyzer</p> <p>Includes NEN DNA Analyzer short version, Apparatus Buffer Tank Kit, Gel Plate Drying Rack, Installation Kit Accessories, Accessory Package, Server Software, Casting Stand, Manuals, Plates and accessories for 25 cm and 41 cm gels, 0.20 mm and 0.25 mm comb sets, e-Seq™ and AlignIR Software with site license, Saga^{GT/MX} Server Edition Software for AFLP® and Microsatellite analysis, TILLING membrane combs, TILLING dipping tray, Ecotilling Supplemental CD.</p>
4300-08	<p>4300L NEN DNA Analyzer</p> <p>Includes NEN® DNA Analyzer long version, Apparatus Buffer Tank Kit, Gel Plate Drying Rack, Installation Kit Accessories, Accessory Package, Server Software, Casting Stand, Manuals, Plates and accessories for 25 cm, 41 cm and 66 cm gels, 0.20 mm and 0.25 mm comb sets, e-Seq and AlignIR Software with site license, Saga^{GT/MX} Server Edition Software for AFLP® and Microsatellite analysis, TILLING membrane combs, TILLING dipping tray, Ecotilling Supplemental CD.</p>

<u>Part Number</u>	<u>Description</u>
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DNA Analysis Software (Software purchase only, *does not include training*)

SAGA^{GT} Software is the world's most advanced microsatellite software. SAGA^{GT} offers the most accurate and automated solution for microsatellite analysis, from starting runs through data analysis.

4200-500	SAGA ^{GT} Personal Edition Software (One-User License)
4200-501	SAGA ^{GT} Server Edition Software (Five-User License)
4200-500U	SAGA ^{GT} Software Upgrade
4200-502	SAGA ^{GT} Extra User License

SAGA^{MX} Software is the most automated AFLP[®] analysis software available. Used for dominant allele scoring, SAGA^{MX} can significantly reduce your AFLP[®] analysis time.

4200-504	SAGA ^{MX} Personal Edition Software (One-User License)
4200-505	SAGA ^{MX} Server Edition Software (Five-User License)
4200-504U	SAGA ^{MX} Software Upgrade
4200-506	SAGA ^{MX} Extra User License
4200-507	SAGA ^{GT,MX} Personal Edition Software (One-User License)
4200-508	SAGA ^{GT,MX} Server Edition Software (Five-User License)
4200-507U	SAGA ^{GT,MX} Software Upgrade
4200-509	SAGA ^{GT,MX} Extra User License

e-Seq[™] Software maximizes both connectivity and sequencing automation. Starting runs, viewing data, sequencing samples and accessing data can be done wherever you are, on your network or the Internet.

9942-154	e-Seq Software (One-User License)
9942-176	e-Seq Software Site License (Unlimited Site License)
9942-154U	e-Seq Software Upgrade

AlignIR[™] is a versatile, powerful and easy-to-use program that aligns, assembles, and edits DNA or RNA sequences. AlignIR imports the images of NEN DNA Analyzers, and also supports standard curve formats used by other automated DNA sequencers.

4200-82	AlignIR Software (One-User License)
4200-82U	AlignIR Software Upgrade
9942-179	AlignIR Software Site License (Unlimited Site License)
9942-181	AlignIR Software (Extra User License)

ACCESSORIES

4000 and 4200 Systems

<u>Part Number</u>	<u>Description</u>
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Glass Plates – Starphire[®] Ultra-Clear Glass by PPG

9840-284	Glass 18 cm, Front
9840-285	Glass 18 cm, Rear
9840-286	Glass 25 cm, Front
9840-287	Glass 25 cm, Rear
9840-288	Glass 41 cm, Front
9840-289	Glass 41 cm, Rear
9840-186	Glass 66 cm, Front
9840-187	Glass 66 cm, Rear

Part Number **Description**

Gel Apparatus Sets, Starphire® Glass Plates

All gel apparatus sets include two front plates, two rear plates, two right clamping rails and two left clamping rails.

4000-91	Gel Apparatus, 18 cm (2 Sets)
4000-92	Gel Apparatus, 25 cm (2 Sets)
4000-93	Gel Apparatus, 41 cm (2 Sets)
4000-13	Gel Apparatus, 66 cm (2 Sets)

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Borofloat® Glass Plates

6542-004	Glass 18 cm, Front (Notched)
6542-005	Glass 18 cm, Rear
6542-006	Glass 25 cm, Front (Notched)
6542-007	Glass 25 cm, Rear
6542-009	Glass 41 cm, Front (Notched)
6542-010	Glass 41 cm, Rear
6542-011	Glass 66 cm, Front (Notched)
6542-012	Glass 66 cm, Rear

Gel Apparatus Sets, Borofloat Glass Plates

All gel apparatus sets include two front plates, two rear plates, two right clamping rails and two left clamping rails.

4200-04	Gel Apparatus, 18 cm (2 Sets)
4200-05	Gel Apparatus, 25 cm (2 Sets)
4200-06	Gel Apparatus, 41 cm (2 Sets)
4200-07	Gel Apparatus, 66 cm (2 Sets)

ALL SYSTEMS

Gel Apparatus Rails

9942-144	18 cm Rail Assembly-Right
9942-145	18 cm Rail Assembly-Left
9942-146	25 cm Rail Assembly-Right
9942-147	25 cm Rail Assembly-Left
9942-150	41 cm Rail Assembly-Right
9942-151	41 cm Rail Assembly-Left
9942-152	66 cm Rail Assembly-Right
9942-153	66 cm Rail Assembly-Left

Gel Apparatus Accessories

222-03455	Gum Rubber Drain Tubing, for upper buffer tank (per foot)
6540-283	Foam Pad Strip
300-03453	Drain Coupling for Gum Rubber Tubing
374-03220	Pure Platinum Wire (per inch) (Need 16 in. in lower buffer tank lid and 11 in. in upper buffer tank lid)
4000-14	Apparatus Buffer Tank Kit (Includes one upper and one lower buffer tank with lids, casting plate and silicone gaskets.)
614-04184	Scrub Brush
624-03787	Binder Clip
6540-165	Gel Disassembly Wedge
6540-255	User Applied Comb Support
9840-009	Stamped Lower Buffer Tank
9840-183	Silkscreened Casting Plate
9940-038	Lower Buffer Tank Lid Assembly
9940-040	Upper Buffer Tank Lid Assembly

Part Number	Description
9940-045	Upper Buffer Tank Cable
9940-058	18 cm Gel Upper Buffer Tank
9940-059	Upper Buffer Tank Assembly
9940-091	Gel Load Assist Assembly
9940-101	Upper Buffer Tank Gasket Kit

Miscellaneous

4000-15	Gel Casting Stand
4000-90	Glass Plate Drying Rack (12-plate capacity)
4200-15	ClickIR™ Gel Loading Syringe (Includes Hamilton 8-Channel, 0.2 mm needles with ClickIR Accessory attached)
9942-031	ClickIR Assembly
870-05848	Hamilton 8-Channel Syringe (0.2 mm needles)
870-05849	1 Replacement Syringe (0.2 mm)
870-07298	6 Replacement Needles (0.2 mm)
9940-085	Bubble Hook (0.25 mm, set of 3)
9940-086	Bubble Hook Assembly (0.4 mm, set of 3)
9942-035	Bubble Hook Assembly (0.2 mm, set of 3)

Gel Spacers

4000-62	Spacers, .25 mm x 25 cm (Includes 4 spacers)
4000-70	Spacers, .25 mm x 41 cm (Includes 4 spacers)
4000-66	Spacers, .25 mm x 66 cm (Includes 4 spacers)
4200-38	Spacers, .20 mm x 25 cm (Includes 4 spacers)
4200-37	Spacers, .20 mm x 41 cm (Includes 4 spacers)
4200-36	Spacers, .20 mm x 66 cm (Includes 4 spacers)

Gel Casting Combs

6540-234	Gel Casting Comb, .25 mm (1 each)
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Combs

4000-16	Comb Set (0.25 mm) Includes one rectangular tooth comb (64 lanes), two sharktooth combs (64 lanes), one rectangular tooth comb (48 lanes), two sharktooth combs (48 lanes), and a casting comb.
4200-40	Comb Set (0.2 mm) Includes one rectangular tooth comb (64 lanes), two sharktooth combs (64 lanes), one rectangular tooth comb (48 lanes), two sharktooth combs (48 lanes), and a casting comb.
9840-161	48-well Sharktooth Comb, 0.25 mm (1 each)
9840-242	64-well Sharktooth Comb, 0.25 mm (1 each)
9840-266	48-well Rectangular Comb, 0.25 mm (1 each)
9840-267	64-well Rectangular Comb, 0.25 mm (1 each)
9842-108	48-well Sharktooth Comb, 0.2 mm (1 each)
9842-110	64-well Sharktooth Comb, 0.2 mm (1 each)
9842-107	48-well Rectangular Comb, 0.2 mm (1 each)
9842-109	64-well Rectangular Comb, 0.2 mm (1 each)
9842-168	96-well Membrane Combs (For TILLING®) (Box of 10)
9842-169	96-well Membrane Combs Loading Tray (For TILLING)

PRIMERS

<u>Part Number</u>	<u>Description</u>
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IRDye® 800 Infrared Dye Labeled Primers, Ready-to-Use (200 µl, 1 pmol/µl), 0.2 nmol

(Ships on Dry Ice)

4000-20B	M13 Forward (-29)
4000-21B	M13 Reverse

IRDye 800 Infrared Dye Primers, Dried Pellet, 1 nmol

829-05565	M13 Forward (-29)
829-05566	M13 Reverse
829-05567	T3 Promoter
829-05568	T7 Promoter

IRDye 800 Infrared Dye Primers, Dried Pellet, 20 nmol

4000-20H	M13 Forward (-29)
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IRDye 700 Infrared Dye Labeled Primers, Ready-to-Use (200 µl, 1 pmol/µl), 0.2 nmol

(Ships on Dry Ice)

4200-20	M13 Forward (-29)
4200-21	M13 Reverse

IRDye 700 Infrared Dye Labeled Primers, Dried Pellet, 1 nmol

829-05570	M13 Forward (-29)
829-05571	M13 Reverse
829-05572	T3 Promoter
829-05573	T7 Promoter

IRDye 700 Infrared Dye Labeled Primers, Dried Pellet, 20 nmol

4200-20G	M13 Forward (-29)
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REAGENTS

<u>Part Number</u>	<u>Description</u>
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Gel Reagents, Hazardous

826-05213	KBPLUS 10XTBE Buffer (Enough for 1 L 10XTBE buffer)
827-05214	KBPLUS 3.7% Gel Matrix (500 mL)
827-05215	KBPLUS 5.5% Gel Matrix, (500 mL)
827-05607	KBPLUS 6.5% Gel Matrix (500 mL)
827-05667	KBPLUS 3.7% Combo Pack Contains one bottle 3.7% gel matrix (500 mL) and one 10XTBE buffer pack (1 L)
827-05668	KBPLUS 5.5% Combo Pack Contains one bottle 5.5% gel matrix (500 mL) and one 10XTBE buffer pack (1 L)
827-05669	KBPLUS 6.5% Combo Pack Contains one bottle 6.5% gel matrix (500 mL) and two 10XTBE buffer packs (1 L)
9942-156	Gel Reagents, Long Read (Includes TEMED and bind silane)
9942-157	Gel Reagents, Standard Read (Includes TEMED and bind silane)
9942-158	Gel Reagents, Genotyping (Includes TEMED and bind silane)

Other Reagents

829-03877	TE Buffer (1 mL)
829-04460	dNTP with c7dGTP (2 mM, 200 µL)

Sizing Standards, 125 Lanes *(Ships on Dry Ice)*

4000-44B	50-350 bp, IRDye 800 Infrared Dye
4200-44	50-350 bp, IRDye 700 Infrared Dye
4000-45	50-700 bp, IRDye 800 Infrared Dye
4200-60	50-700 bp, IRDye 700 Infrared Dye

<u>Part Number</u>	<u>Description</u>
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Sizing Standards, 2500 Lanes (Ships on Dry Ice)

829-05343	50-350 bp, IRDye® 700 Infrared Dye
829-05344	50-350 bp, IRDye 800 Infrared Dye
829-05345	50-700 bp, IRDye 700 Infrared Dye
829-05346	50-700 bp, IRDye 800 Infrared Dye

Concentrated Sizing Standards, 500 Lanes (Ships on Dry Ice)

829-06157	50-350 bp, IRDye 700 Infrared Dye
829-06158	50-350 bp, IRDye 800 Infrared Dye

Labeling Reagents (Ships on Dry Ice)

4000-33	IRDye 800 Infrared Dye Phosphoramidite (100 µmol)
4200-33	IRDye 700 Infrared Dye Phosphoramidite (100 µmol)

Stop Solutions

829-04459	Stop/Loading Buffer (500 µl blue, for genotyping applications)
830-04997	IR ² Stop Solution (4 mL red, for sequencing applications) <i>(Ships on Dry Ice)</i>
830-05043	IR ² Stop Solution (200 mL red, for sequencing applications) <i>(Ships on Dry Ice)</i>
830-05629	Blue Stop Solution (4 mL blue, for genotyping applications)
830-05630	Blue Stop Solution (200 mL blue, for genotyping applications)

IRDye Infrared Dye Terminator Mixes (Ships on Dry Ice)

NEN® has developed a novel family of non-nucleotide terminators called AcycloTerminators. These terminators, labeled with LI-COR IRDye 800, are available for NEN DNA Analyzers for even greater flexibility.

829-06650	NEN IRDye 800 v.2 Termination Mix Includes enough terminator mixes and Stop Solution for 100 sequencing reactions.
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AFLP® Kits and Reagents (Ships on Dry Ice)

Template Preparation Kits: For the restriction digest, ligation of adapters and pre-selective amplification of the templates. 100 templates can be prepared in large enough quantities to do approximately 5,000 reactions each.

830-06198	AFLP® Template Preparation Kit
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Selective Amplification Kits: For the selective amplification of the templates that were prepared with the Template Preparation Kit. Adequate for approximately 1,600 AFLP® reactions (25 templates run with 64 different primer combinations).

830-06197	AFLP® 2-Dye Selective Amplification Kit
830-06196	AFLP® IRDye 800 Infrared Dye Selective Amplification Kit
830-06226	AFLP® IRDye 700 Infrared Dye Selective Amplification Kit

Startup Kits include both the template preparation kit and a selective amplification kit.

830-06195	AFLP® 2-Dye Startup Kit
830-06194	AFLP® IRDye 800 Infrared Dye Startup Kit
830-06258	AFLP® IRDye 700 Infrared Dye Startup Kit

AFLP® Individual Components, MseI Unlabeled Primers, 1000 rxns

829-06316	AFLP® M-CAA Individual Primer
829-06317	AFLP® M-CAC Individual Primer
829-06318	AFLP® M-CAG Individual Primer
829-06319	AFLP® M-CAT Individual Primer
829-06320	AFLP® M-CTA Individual Primer
829-06321	AFLP® M-CTC Individual Primer
829-06322	AFLP® M-CTG Individual Primer
829-06323	AFLP® M-CTT Individual Primer

<u>Part Number</u>	<u>Description</u>
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EcoRI IRDye® 700 Infrared Dye Primers, 1000 rxns

829-06300	AFLP® E-AAC Individual Primer
829-06301	AFLP® E-AAG Individual Primer
829-06302	AFLP® E-ACA Individual Primer
829-06303	AFLP® E-ACC Individual Primer
829-06304	AFLP® E-ACG Individual Primer
829-06305	AFLP® E-ACT Individual Primer
829-06306	AFLP® E-AGC Individual Primer
829-06307	AFLP® E-AGG Individual Primer

EcoRI IRDye 800 Infrared Dye Primers, 1000 rxns

829-06308	AFLP® E-AAC Individual Primer
829-06309	AFLP® E-AAG Individual Primer
829-06310	AFLP® E-ACA Individual Primer
829-06311	AFLP® E-ACC Individual Primer
829-06312	AFLP® E-ACG Individual Primer

EcoRI IRDye 800 Infrared Dye Primers, 1000 rxns

829-06313	AFLP® E-ACT Individual Primer
829-06314	AFLP® E-AGC Individual Primer
829-06315	AFLP® E-AGG Individual Primer

cDNA AFLP® Expression Analysis Reagents (Ships on Dry Ice)

830-06518	AFLP® Expression Analysis Kit 700
830-06637	AFLP® Expression Analysis Kit 800
830-06639	AFLP® EA 700 Primer Set 1
830-06640	AFLP® EA 800 Primer Set 1
830-06813	AFLP® EA 700 Primer Set 2
830-06814	AFLP® EA 800 Primer Set 2
830-06815	AFLP® EA MseI Primer Set 1
830-06816	AFLP® EA MseI Primer Set 2

Miscellaneous AFLP® Reagents

829-06193	AFLP® PreAmplification Primer Mix (2 ml)
830-06529	10X Amp Buffer-cDNA AFLP®
830-06534	Pre-Amp Primer Mix-cDNA AFLP®

Service Contracts

9942-177	4200 Warranty contract-parts only, provided by local distributor (Serial Number > 2000)
9943-056	4300 Warranty contract-parts only, provided by local distributor

LIMITED WARRANTY AND LIMITED USE LABEL LICENSE

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