



Green Products List

As the demand for greener laboratory products rises, the variety of environmentally friendly merchandise grows. This list outlines greener alternatives to traditional laboratory products and equipment and what benefits they provide to the user and environment.

ENERGY EFFICIENCY		
Product	Manufacturer - Distributor	Benefit
LED lights for labs LabLink LED LabLight	PG LifeLink VWR	Energy Star rated components, efficient management of heat generated by high-power LEDs, 50,000 hours LED service life
Microtomes Cryostar™ NX70	Thermo Scientific VWR	Rapid response cooling system, precise temperature control and less energy consumption, utilizes low energy LED lighting
CO ₂ Incubator Reach-in Incubator with gVAPOR™ temperature control	Caron VWR	gVAPOR™ - Delivering humidity vapour on an as-needed basis without wasting energy or heat
Refrigerated CO ₂ Incubator Reach-in incubator with gROD™ temperature control	Caron VWR	gROD™ Refrigeration on Demand - delivering refrigeration on an as-needed basis, efficient power management and consumption
VWR Fridges and Freezers	VWR	The VWR line of refrigerators and freezers operate with natural refrigerants.
Ultra-Low Temperature Upright Freezers Thermo TSX®	Thermo Scientific VWR	Features high energy efficiency and provides tight control of temperature
Ultra-Low Temperature Upright Freezers Stirling Ultracold SU780XLE	Stirling Ultracold VWR	Low Energy Consumption, Large Storage Capacity per Sq Ft. of floor space. Plugs into any outlet. High long-term reliability.
Ultra-Low Temperature Freezers CryoCube High Efficiency	Eppendorf VWR VWR	Optimal air flow to prevent over-heating and features that provide tight control of the temperature
Panasonic VIP Eco Natural Refrigerant ULT Freezer	Panasonic VWR	The freezer operates on natural refrigerants.
Environmental Test Chamber Benchtop and Large Capacity	Caron VWR	Humidity provided as needed without wasting energy or producing heat Refrigeration on Demand (efficient management of power and saves electricity)
Ultracentrifuge Optima XPN-100 Ultracentrifuge	Beckman Coulter Available through VWR, please call 1-855-745-2681	Regenerative braking returns energy to local circuit Highly efficient thermoelectric cooling results in lower power consumption Minimized energy usage when idling (details)
In fume hood blower Intelli-Sense™ Variable Speed Blowers	Labconco VWR	Save energy by using lower speeds when possible
Biosafety Cabinet Purifier Logic®	Labconco VWR	Idles blower when sash is fully closed
Refrigerated Incubator B.O.D. Thermoelectric Cooled	Sheldon Manufacturing VWR	Units use 78% less power than alternative models and reduce room air conditioning loads by 75%.
Spectrometer Spectrum Two™ FT-IR	Perkin Elmer VWR	76% reduction in energy use compared to the PerkinElmer RX spectrometer, 75% (by weight) of unit can be recycled



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Local Area Vacuum Network Vacuu-Lan® by Vacuubrand	Lab Synergy VWR	Pumps operate only on demand, conserving up to 90% of the energy that may be needed for central vacuum supply. High-performance vacuum removes the need for dedicated pumps.
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HAZARDOUS WASTE MINIMIZATION		
Product	Vendor	Benefit
Nucleic Acid Gel Stains GelRed™ and GelGreen™	Biotium VWR	Substitute for hazardous Ethidium Bromide
qPCR Mastermix EvaGreen®	Biotium VWR	Substitute for hazardous Ethidium Bromide
Karl Fischer reagents Aquastar® Pyridine-free	EMD VWR	Pyridine free
Blue Light DNA Dye EZ-Vision® In-Gel Solution	Amresco VWR	Safe chemical substitutions, non-mutagenic, non-toxic
Dye-as-Loading Buffer EZ-Vision®	Amresco VWR	Safe chemical substitutions, non-mutagenic, non-toxic
Protein Stain Pierce GelCode® Blue Stain Reagent	Thermo Scientific VWR	Safe chemical substitutions, reduces reagent cost and solvent disposal
Thermometers Liquid-in-glass, non-mercury	VWR	Mercury-free thermometer, with non-toxic alternative
Partial-Immersion Thermometers Easy-Read® Certified Liquid In Glass Thermometer	HB Instrument Company VWR	Non-toxic, non-hazardous components
Total RNA Purification Kit Phenol-free Purification Kit	Amresco VWR	Phenol Free
RNA Gel Kit Formaldehyde-Free Kit	Amresco VWR	Formaldehyde free
Spill Kit Supplies: Absorbent Mats Spill Kits DrainBlockers	New Pig VWR	Sustainable options for spill kits
ImageQuant™ CCD Camera Systems	GE HealthCare Available through VWR, please call 1-855-745-2681	Replaces wet processes
Autoclave Tape	VWR	Lead-free, latex free autoclave tape
Autoclave Indicator Tape AUTOPC (lead-free)	Micronova VWR	Lead-free autoclave tape
Greener Cleaning Products: MegaClean : All-purpose cleaner NovaClean : Lab/Glass cleaner	Micronova VWR	Biodegradable, non-flammable
Detergents: Alconox PCC-54 RBS35	Alconox (VWR) Thermo Scientific (VWR)	Biodegradable, phosphate-free, and/or less hazardous
Green Electrodes InLab Series®	Mettler Toledo VWR	Comply with RoHS and WEEE standards
Vacuum Pumps LABOPORT®	KNF Neuberger VWR	Oil-free
DNA MW Markers Ready Ladder™ or EZ-Vision®	Amresco VWR	Safe chemical substitutions



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SYBR® Safe DNA Gel Stain	Thermo Fisher Scientific	Substitute for hazardous Ethidium Bromide
LabSafe GEL Blue™ Electrophoresis Gel Stain, G-Biosciences	G-Biosciences VWR	Avoids the use of methanol, acetic acid, or other toxic agents
AQUACOUNTER® Automatic Coulometric Karl Fischer Titrator	Hitachi High-Tech	Safe chemical substitutions (less reagent and waste)
AquaMetric® Pyridine-free volumetric Karl Fischer reagents	Panreac	Pyridine free
Coomassie Stain Bio-safe (non-hazardous)	Bio-rad	Safe chemical substitution
Formalin alternative: Glyo-fixx®	ThermoFisher Scientific	Glyo-Fixx is a non-carcinogenic, non-sensitizing, and environmentally friendly substitute for formalin
QC Eco-Green Heat Transfer Fluid	Chemical.net	Eco-green liquid for use in heat transfer equipment

SOLID WASTE REDUCTION		
Product	Vendor	Benefit
Centrifuge Tubes VWR® High-Performance tubes	VWR	Reusable Racks for 15mL and 50mL, uses less plastic
Pipet Tip Refill System VWR® Next Generation	VWR	Use less plastic, Reduced and recycled packaging
Weighing boat holders ErgoClips®	Mettler Toledo VWR	No need for weighing paper
Vacuum Filtration Devices VacuCap®	Pall VWR	Little plastic waste, no contamination, refilling of reservoir
Syringe Filters Acrodisc® PSF Syringe Filters	Pall VWR	Uses less plastic
Pipet tips – Bulk and Racked Neptune™	Biotix VWR	Uses less plastic
Pipet Tip Refill System Biotix Tip Eject™	Biotix VWR	Uses less plastic
Pipet Tip Refill System Neptune™ ESP	Biotix VWR	Uses less plastic
Tissue Processing and Stains	Thermo Scientific VWR	Packaging uses less plastic
Pipet Tips – Bulk, racked and reload system Biohit Family	Sartorius VWR	100% Recyclable Trays and Racks, uses less plastic
96-Well Microplates Half-Area Microplates	Greiner Bio-One VWR	Uses less plastic
Pipet Tip Box Recycling TerraCycle®	VWR	Recycling program to reduce landfill waste
Automated Reagent Dispenser Multidrop™ Combi	Thermo Scientific VWR	Reduced reagent cost
ART Racks for Filter Tips Reload System	Thermo Scientific VWR	Uses less plastic
CO2 and Temperature Monitoring Systems	VWR	Paperless CO2 and temperature tracking systems



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WATER REDUCTION		
Product	Vendor	Benefit
Water Bath Beads LabArmor™ Bath Beads	Sheldon Manufacturing VWR	Reduce water consumption
Water Purification Condensate Recirculating System	Caron VWR	Water reduction through recirculation
CO ₂ Incubator Reach-in Incubator with gVAPOR™ temperature control	Caron VWR	gVAPOR™ - Delivering humidity vapour on an as-needed basis without wasting energy or heat
Air Condenser FINDENSER	Heidolph VWR	Reduce water use in air condensing
Laboratory Filtration Systems	EMD Millipore	Eliminate the use of water aspirators
EZ-Fit® Filter Holder Manifolds	EMD Millipore	Eliminate the use of water aspirators
1225 Sampling Manifold for smaller volumes	EMD Millipore	Simultaneously filter up to 12 samples