



Burdick & Jackson Biosyn DNA Reagents

Burdick & Jackson (B&J) is a well respected supplier for any lab involved in DNA synthesis. B&J has developed the highest purity and most consistent line of BioSyn® solvents on the market. Their line of BioSyn® DNA reagents are produced under the same high quality standards and are critical in part of the DNA synthesis process.

Consistency

The B & J Biosyn® products are consistent on a lot-to-lot basis. There is only one manufacturing facility for these B&J products, and quality standards are extremely strict under the B&J ISO 9001 Certified Quality System. They are designed to facilitate direct connection to popular DNA synthesizers.

Quality

B & J Biosyn DNA Reagents are passed through a 0.2 micron filter during packaging to eliminate any chance for particulate contamination. The DNA reagents are designed and processed with the end use in mind, connecting directly to popular DNA and RNA synthesizers such as the 3948 DNA/RNA synthesizer, as well as the ABI 380 and 390 series.

Product Line

The DNA reagents in the Burdick & Jackson line include:
A Cap - 10% Acetic Anhydride, 10% Pyridine and 80% Tetrahydrofuran by volume $\pm 1.0\%$ by GC analysis.

Activator Solution - 0.45 M ± 0.02 of Tetrazole along with Acetonitrile, the purity of both of these is 99.5%.

B Cap - reagent with 10% N-Methylimidazole and 90% Tetrahydrofuran $\pm 1.0\%$ by GC analysis, with purities of 99.0% and 99.9% respectively.

Deblock-T - Dichloromethane and 3% Trichloroacetic acid $\pm 0.1\%$, which contains less than 0.001% Chloride.

A Diluent from Acetonitrile - refractive index of 1.3440 ± 0.0006 and less than one mg/L residue.

Oxidation-T - made from 0.02 M ± 0.001 M Iodine, with about 2% Water, 20% Pyridine and 78% Tetrahydrofuran by volume.

Packaging Options

The BioSyn® DNA Reagents are available in a variety of container sizes, from 45mL to 2L in many of the products, as shown below.

Product	Number	Package Sizes
Activator Solution (Tetrazole/Acetonitrile)	BR632	45mL, 200mL, 450mL, 900mL, 2L
A Cap	BR641	200mL, 450mL, 2L
B Cap	BR651	200mL, 450mL, 2L
Deblock-T	BR605	200mL, 450mL, 900 mL, 2L, 4L
Diluent (Acetonitrile)	BR017	45mL, 100mL
Oxidation-T	BR663	200mL, 450mL, 2L

To order, log on to www.mgsscientific.com, search under: Biosyn DNA



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B&J DNA Reagents

Pall Gelman's Universal Solvent Filter

Stocking a variety of filters is both expensive and inconvenient. Now you can stock just one syringe filter in the lab that is compatible with a wide range of solvents. Pall Gelman's universal solvent filter is the GHP Acrodisc, which includes an all-purpose membrane, GH Polypro (GHP), that is effective for harsh aqueous samples and for aggressive organic solvent-based solutions. The GHP Acrodisc is the most versatile filter available in terms of broad chemical compatibility with bases, acids and organic solvents.

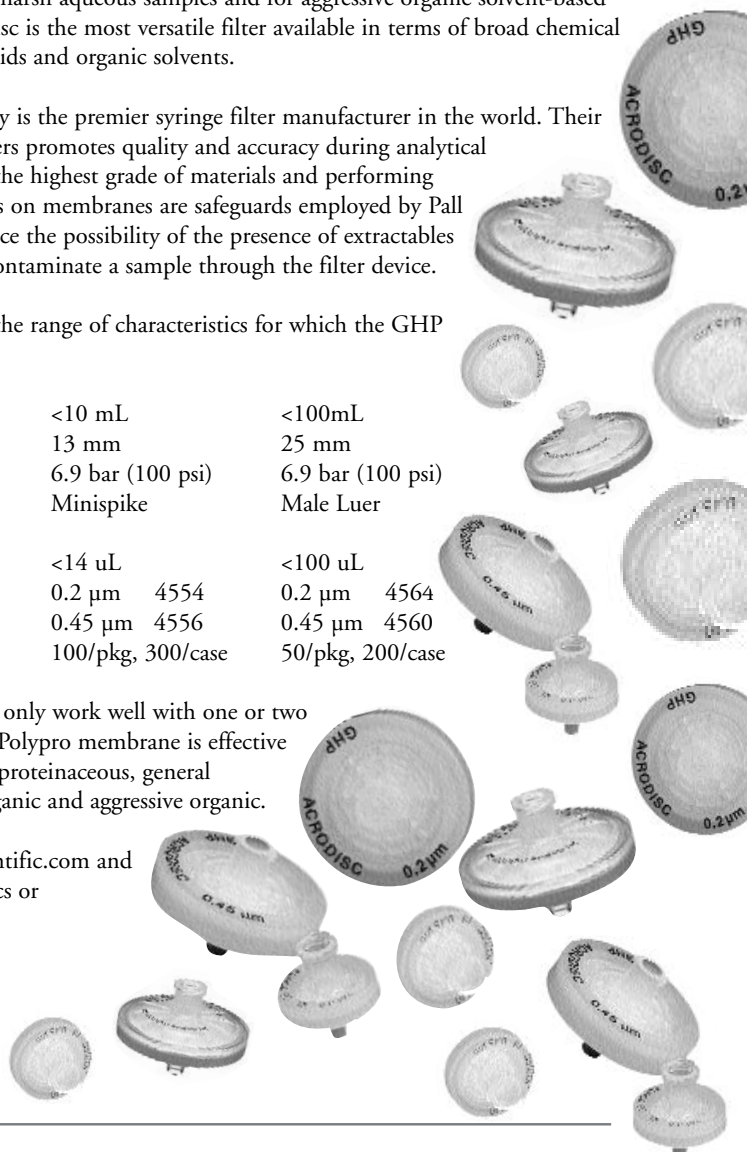
Pall Gelman Laboratory is the premier syringe filter manufacturer in the world. Their line of Acrodisc syringe filters promotes quality and accuracy during analytical sample preparation. Using the highest grade of materials and performing rigorous extraction methods on membranes are safeguards employed by Pall Gelman Laboratory to reduce the possibility of the presence of extractables in their filters, which can contaminate a sample through the filter device.

The table below gives the range of characteristics for which the GHP Acrodisc filter is suitable.

Sample volume	<10 mL	<100mL
Diameter	13 mm	25 mm
Maximum pressure rating	6.9 bar (100 psi)	6.9 bar (100 psi)
Outlet connection	Minispike	Male Luer
Typical hold-up volume (with air purge)	<14 uL	<100 uL
Pore size and part number	0.2 µm 4554	0.2 µm 4564
	0.45 µm 4556	0.45 µm 4560
	Packaging	100/pkg, 300/case

While other filters will only work well with one or two types of solutions, the GH Polypro membrane is effective with almost any solution—proteinaceous, general aqueous, non-aggressive organic and aggressive organic.

Log onto www.mgscientific.com and search under GHP Acrodiscs or call customer service at 800-343-8338 to order.





Bio Plas Systems for Applying Samples Increase Reliability

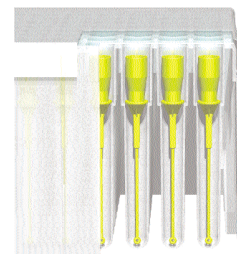
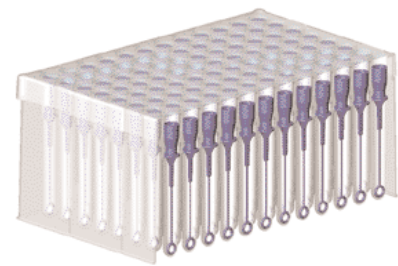
The tedious, time consuming task of spreading cultures into petrie dishes just got a lot faster and a lot more reliable. Bio Plas, Inc. has introduced two systems that dramatically speed up the application process for cultures and increase accuracy and sterility. Both systems house the applicators in individual sterile compartments, as illustrated. Both come with a handle, uniquely designed for the individual applicator. The technician inserts the handle into the sterile compartment by piercing the sealing film, quickly engages the applicator, picks up the culture onto the applicator, spreads it into the petrie dish, ejects and discards the applicator and is ready to repeat the process, handle in hand.

The Clone-Pik™ replaces the toothpick

The Clone-Pik™ is a modern, sterile alternative to the wooden toothpick. Representative lots of the Clone-Pik™ are tested for the absence of DNA and PCR inhibitors and are free of DNase and RNase. The Clone-Pik™ is available in boxes of 96.

The Astral™ Inoculation System is accurate, quick, sterile

The Astral™ Inoculation System is used any time metal loops or streaking needles are needed. There are two sizes of loops, color coded for easy identification—10 mL or 1 mL. There is also a white Astral™ Streaking Needle available. This system eliminates the flaming step from the process and offers guaranteed sterile tools, certified to be free of RNase, DNase, DNA, pyrogens and PCR inhibitors. Each rack contains 96 individual chambers, with an Astral™ loop in each.



Saves Time and Money

These systems save time by decreasing the time required to inoculate prepared plates and save money by reducing the number of plates, because they are guaranteed to be sterile.

To order, log onto www.mgscientific.com, and search under Clone-Pik or Astral.

WLD-TEC Gas Burners

A gas burner is a necessary fixture in many labs, but it can be a safety hazard on a crowded lab bench. WLD-TEC has developed a group of stainless steel gas burners for the lab that address safety concerns with on/off switches controlled by a foot pedal or an infrared sensor that responds to the wave of a hand. They are designed to save space and include easy to read indicator lights and automatic cut-off for the gas feed.

gasprofi 1 - The gasprofi 1 model is operated by depressing and releasing a foot pedal. An indicator light provides constant information on the status of the flame. The automatic cut-off feature extinguishes the flame and stops the gas flow. Flame intensity and size are controlled with knobs and can adjust the temperature to any point, up to 1350°C. Gas cartridges can be used instead of a stationary supply for maximum flexibility.

gasprofi 2 accu - The gasprofi 2 adds a timer which can be set to keep a flame for 1 to 25 seconds or for 5 to 60 minutes and an infrared sensor which responds to a simple hand motion to turn the burner on or off.

gasmobil 1 - With the gasmobil 1, the burner can be handheld and lights automatically using the piezo effect. It operates from a gas line or a cartridge.



Another Lab Saves Time and Money With MG's

“MG Scientific’s invenTRAK system has completely eliminated any inventory problems we were having,” says the Wastewater Analyst for a large municipal sewerage district. The district has been using MG’s invenTRAK system to maintain inventory levels of all laboratory items for nearly two years.

The district had hired a consultant to design lab procedures that streamlined inventory storage and ordering. A major concern was the procurement system. “We needed to reduce the number of emergencies when we actually ran out of supplies and make sure that we didn’t overstock. The consultant gave us fifteen points that a good program would include,” notes the analyst. “MG’s invenTRAK covers those fifteen points and more.”

How invenTRAK works

Determine requirements - To begin the invenTRAK program, a representative from MG Scientific meets with your laboratory staff to determine which items are required

in stock and about how much of each item is used every week. There are cyclical requirements for several items, so MG helps to estimate the average weekly consumption of these products.

Take inventory, order, stock - A representative from MG will come twice a week to stock supplies and to take an inventory of what is on-hand, either manually or using a barcode system. If there are any special orders, just call MG and those items can either be shipped or the representative can bring them on the next visit.

Saves time with the right inventory

“MG’s invenTRAK program is saving us a huge amount of time,” says the analyst. **“We are hardly involved with ordering and it’s easy to find what we need in the stockroom. We’re saving money, too, by having exactly what we need on hand. We are very pleased.”**



Portable Refractometer Model N-1a: high contrast for easy reading, inexpensive, portable

Atago's portable Model N-1a refractometer features a new, extremely high contrast scale area for checking readings in the field quickly and easily. Reflection from the sun can interfere with accurate viewing in the scale area, and measurements may be misread. As shown below, the top half of the viewing area is a darker blue, and the bottom half is white; the reading is seen at a glance where the two colors meet.

Made of metal, which conducts heat quickly, the Model N-1a allows the sample and the refractometer to reach the same temperature quickly. With the handle encased in rubber, the refractometer is rugged, durable, lightweight and easy to carry in the field. The all-rubber grip also guards against



New Mallinckrodt Baker Biopharm Catalog

Mallinckrodt Baker has created a new Biopharm Catalog featuring their high purity chemicals, including acids, solvents and solutions. Both the J.T. Baker and Mallinckrodt brands have been leaders in purity and quality assurance among laboratory chemical users. Supplying laboratories worldwide, Mallinckrodt Baker, Inc. is poised at the leading edge of product and quality requirements throughout the world.

Range of products and packaging options

The new Biopharm Catalog is easy to use. It details specifications, prices and your choices in packaging options, from smaller containers to bulk packaging. With the new catalog, it is easy to see the wide range of products available.

The Catalog introduces more than 250 innovative new products, including biosynthesis solvents, multicompendial products, amino acids, solutions and reagent solutions.

Quality assurance

All Mallinckrodt Baker, Inc. raw materials are produced under compliance with current Good Manufacturing Practices (cGMP), avoiding problems in scaling up a process from R&D. Mallinckrodt Baker is registered with the FDA as a Bulk Pharmaceutical Chemical manufacturer, ensuring that there is an

ongoing Supplier Quality Process in place for stringent control of raw materials.

- A five level audit program provides additional quality assurance, with periodic audits by the FDA, corporate QA, site audit teams, auditors and about fifty customers per year.
- Documentation is extensive for USP and NF products, including product samples for each lot produced.



The Mallinckrodt Baker product line includes the largest available line of USP/NF multicompendial tested products. The Global Pharma multicompendial product line helps meet regulatory requirements in preparing for production or clinical trials in Europe or Asia. These products are tested for every specification of the appropriate compendia. They meet requirements of USP 24 and NF 19 and of EP (PhEur), BP and JP.

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