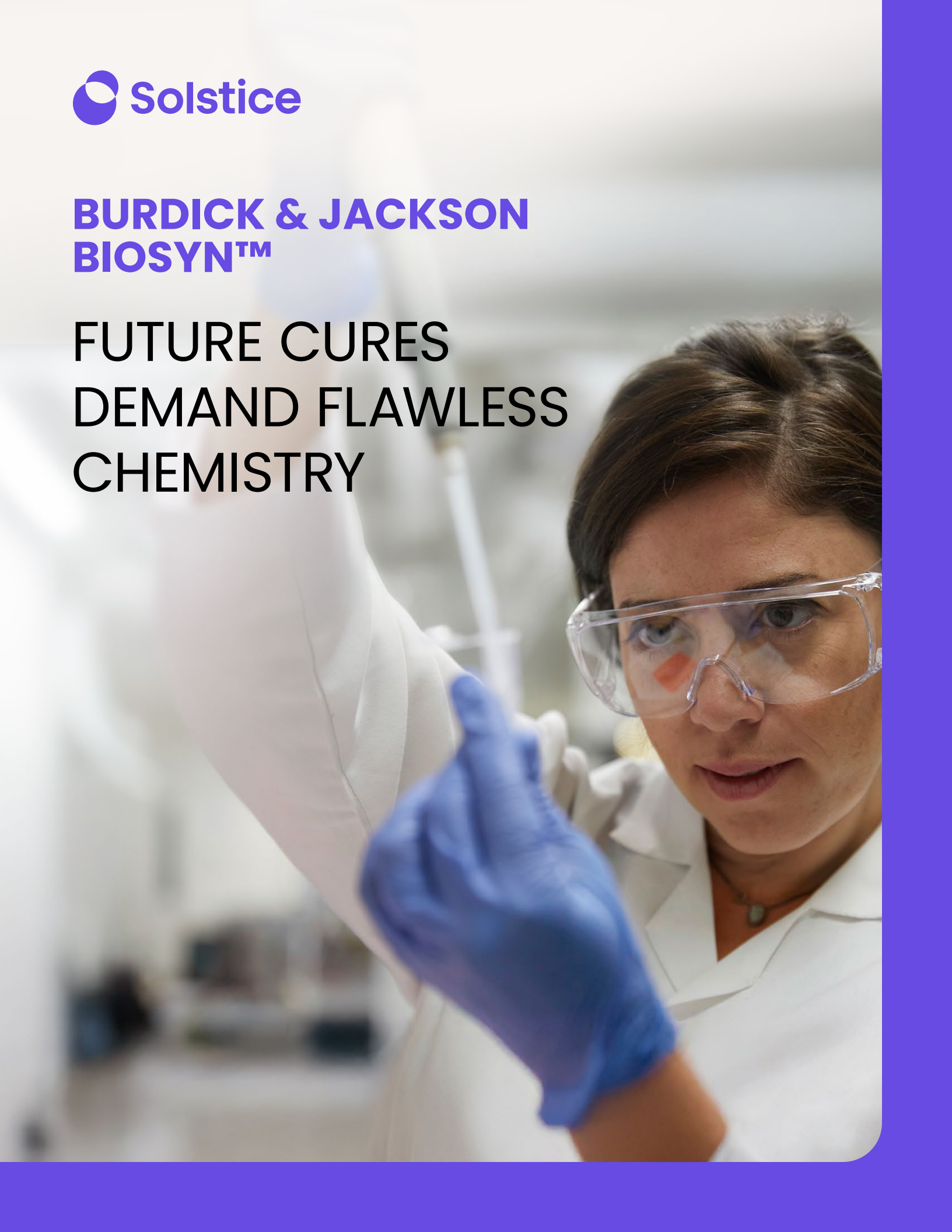




**BURDICK & JACKSON
BIOSYN™**

**FUTURE CURES
DEMAND FLAWLESS
CHEMISTRY**



HIGH-PURITY SOLVENTS & REAGENTS FOR BIOSYNTHESIS WORKFLOWS

When working on oligonucleotide and polypeptide synthesis workflows, even the slightest inconsistency can compromise an entire project. This can look like variable synthesis efficiency, particulate contamination, and cross-contamination in open systems. If reagents lack lot-to-lot reproducibility or fail to scale seamlessly from the bench to production, laboratories can lose time, see reduced yields, and experience increased development costs.

Burdick & Jackson BioSyn™ was engineered to eliminate these variables. As the trusted choice for biosynthesis, our high-purity solvents and reagents deliver the exacting specifications you require for accurate DNA and RNA synthesis, including deblocks, activators, capping reagents, and oxidizers in various formulations, as well as acetonitrile with extremely low water content.

Produced using advanced purification methods and tightly controlled, closed-system processes, Burdick & Jackson BioSyn protects against variability and contamination at every stage. Every product is verified from point-of-fill to point-of-use — ensuring higher-synthesis efficiency and yield, batch after batch.

For more than 60 years, Burdick & Jackson BioSyn has been the scalable solution tailored to your laboratory's exact requirements that you can rely on. Whether you are advancing pharmacogenomics, diagnostics, therapeutics, or drug discovery, our experts work alongside pharma, biotech, and CDMO teams — from early research through manufacturing scale-up — to fine-tune formulations and facilitate direct connections to popular synthesizers.

The result is quality you can count on, giving your team the confidence to scale efficiently and deliver high-quality biosynthesis at any scale.



OLIGONUCLEOTIDE SYNTHESIS

1. DEBLOCKING (DETRITYLATION)

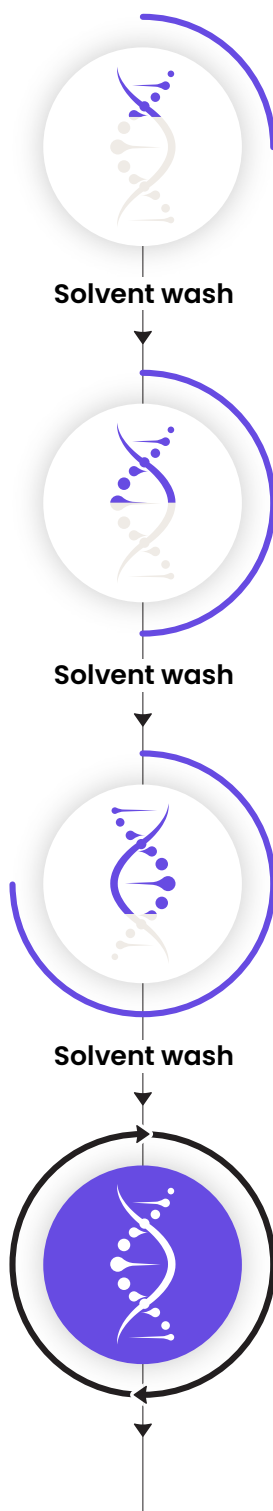
Deblocking Reagents

- 3% Trichloroacetic acid in Dichloromethane (v/v)
- 3% Dichloroacetic acid in Dichloromethane (v/v)
- 3% Dichloroacetic acid in Toluene (v/v)
- 10% Dichloroacetic acid in Toluene (v/v)
- Custom formulations upon request

3. CAPPING

Capping Reagents

- 80% THF, 10% 2,6-Lutidine, 10% Acetic Anhydride (v/v/v)
- 80% THF, 10% Pyridine, 10% Acetic Anhydride (v/v/v)
- 90% THF, 10% Acetic Anhydride (v/v)
- 50% Acetonitrile, 30% 2,6-Lutidine, 20% Acetic Anhydride (v/v/v)²
- 84% THF, 16% N-Methylimidazole (v/v)
- 90% THF, 10% N-Methylimidazole (v/v)
- 80% THF, 10% Pyridine, 10% N-Methylimidazole (v/v/v)
- 80% Acetonitrile, 20% N-Methylimidazole (v/v)
- 75% Acetonitrile, 25% Acetic Anhydride (v/v)
- 50% Acetonitrile, 30% Lutidine, 20% Acetic Anhydride (v/v)
- Custom formulations upon request



2. ACTIVATION/ COUPLING

Activation Reagents

rBMI/BMT

- 0.30M 5-Benzylthio-1H-tetrazole, 0.5% NMI, 99.5% Acetonitrile¹

ETT

- 0.25M 5-Ethylthio-1H-tetrazole in Acetonitrile
- 0.5M 5-Ethylthio-1H-tetrazole in Acetonitrile
- 0.6M 5-Ethylthio-1H-tetrazole in Acetonitrile
- 0.75M 5-Ethylthio-1H-tetrazole in Acetonitrile
- Custom formulations upon request

Alternate Activation Reagents Available
4,5-Dicyanoimidazole (DCI), 5-Benzylthio-1H-Tetrazole (BTT), etc.

4. OXIDATION

Oxidation Reagents

- 78% THF, 20% Pyridine, 2% Water, 0.02M Iodine (v/v/v)
- 90% Pyridine, 10% Water, 0.05M Iodine (v/v)
- 89.6% THF, 0.4% Pyridine, 10% Water, 0.02M Iodine (v/v)
- 70% THF, 20% Pyridine, 10% Water, 0.02M Iodine (v/v/v)
- 80% Acetonitrile, 10% Pyridine, 10% Water, 0.05M Iodine (v/v/v)
- 0.025M Iodine in 45% Pyridine, 45% Acetonitrile, 10% Water (v/v/v)
- Custom formulations upon request
- Sulfurization reagents upon request

BURDICK & JACKSON BIOSYN

Wash solvents and related products

- Acetonitrile³
- Dichloromethane
- Pyridine
- Tetrahydrofuran
- Triethylamine
- Trifluoroacetic acid

Custom blending capabilities

Offering custom blends for each step of the Oligonucleotide Synthesis process.

Cleavage and deprotection reagents

Concentrated ammonium hydroxide solutions are available for cleaving Oligonucleotides from the solid support.

Buffer solutions

Custom buffer solutions tailored to customer requirements are available upon request.

Environmentally friendly packaging solutions

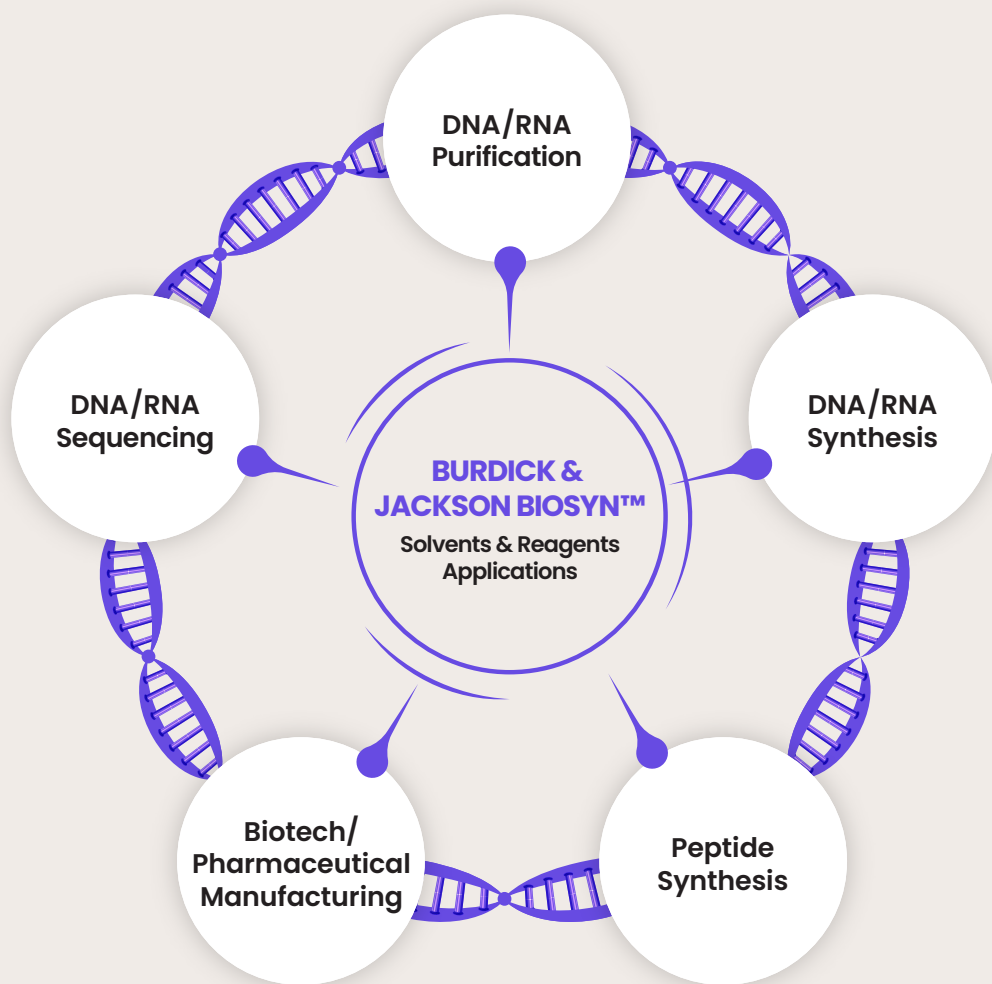
All of these solutions are available in a wide range of safe packaging solutions with direct connections to popular synthesizers.

¹ US Patent 7,339,052

² 45mm bottle neck finish

Features

- Low water content solvents, well suited for moisture sensitive applications
- High-purity reagents to ensure improved overall yield of final products
- Consistent quality manufacturing standards
- Packaging designed to facilitate direct connection to popular synthesizers
- Years of technical expertise at multiple manufacturing sites on two continents





Need a custom formulation?

In addition to delivering our core reagents and solvents, Burdick & Jackson BioSyn experts partner with scientists to develop high-purity solvents and reagents tailored to complex biosynthesis workflows. Built on a long-standing legacy of solvent excellence and deep application knowledge, we understand the precision, consistency, and control your processes demand.

If you're looking to optimize or scale your biosynthesis workflows, Burdick & Jackson BioSyn specialists can support you with:

- Selecting solvent and reagent formulations designed to meet your exact process requirements
- Troubleshooting challenges (e.g., reactivity) and optimizing formulations for workflow integration
- Customizing packaging solutions engineered to preserve purity at point of use and support bench-to-production scale workflows
- Providing documentation and certificates to support regulatory and compliance needs
- Accessing technical expertise, application literature, and validated best practices
- Developing a custom Solstice LabReady™ product in direct collaboration with your team

Packaging Options

- 1L, 2L, 2.5L and 4L glass bottles in a 38mm or 45mm neck finish
- 800L fluoropolymer lined totes
- 1,100L and 1,250L stainless steel bulk containers
- Tank truck
- Returnable Container Program:
 - **Global:**
 - 56L and 200L stainless steel pressure dispense system (SSPDS) containers
 - 800L fluoropolymer-lined stainless steel intermediate bulk containers (IBCs)
 - 1,250L stainless steel IBCs and 1,100L stainless portable tanks
 - **North America:**
 - 20L and 40L stainless steel NOWPak®II containers (NPII)
 - 20L HDPE NOWPak® containers (NPI)

Returnable Container Program

Burdick & Jackson BioSyn solvents and reagents are available through a Returnable Container Program. Stainless steel containers maintain purity while reducing the operational burden of traditional packaging. After use, containers are collected, cleaned, and refilled through a managed round-trip logistics program, helping maintain solvent purity while supporting more sustainable operations.

Benefits for your lab:

- **Lower disposal and packaging costs** – Reusable containers eliminate most single-use packaging, reduce hazardous waste disposal, and lower total cost of ownership.
- **Reduced storage footprint** – Containers can take up to 50% less space than glass bottles, helping free up valuable lab space.
- **Streamlined workflows** – Direct instrument connections can reduce time spent swapping bottles and handling solvents.
- **Improved safety** – Sealed, break-resistant systems can reduce spills, exposure, and contamination risks.
- **Sustainability gains** – Reusable stainless-steel containers can reduce packaging waste and associated environmental impact.

DEBLOCKING REAGENTS (DETRITYLATION)

CATALOG NUMBER	PACKAGE INFO
3% Trichloroacetic acid in Dichloromethane (w/v)	
BR605-2	4x2L
BR605-4X2.5L	4x2.5L ²
BR605-20	20L NP11
BR605-4	4x4L
BR605-56L	56L SSPDS
3% Dichloroacetic acid in Dichloromethane (v/v)	
SR622-4	4x4L
SR622-20	20L NP11
BC622AC-800	800L SSPDS
BR622AG-800L	800L SSPDS
3% Dichloroacetic acid in Toluene (v/v)	
SR674-4	4x4L
SR674-20	20L NP11
BR674-200	200L SSPDS
5% Dichloroacetic acid in Toluene (v/v)	
BR615-20L	20L NP11
10% Dichloroacetic acid in Toluene (v/v)	
BR676-4 X2.5L	4X2.5L
BN676-20	20L NP11
BR676AF-56L	56L SSPDS
BR676AF-200L	200L SSPDS
BC676AC-800	800L SSPDS
BR676AG-800L	800L SSPDS

ACTIVATOR REAGENTS

CATALOG NUMBER	PACKAGE INFO
rBMI/BMT	
99.5% Acetonitrile¹, 0.5% NMI, 0.30M 5-Benzylthio-1H-tetrazole	
SR731-1	2x1L ²
BR731-4	4x4L
BR731-20	20L NP11
BC731-200	200L SSPDS
ETT	
0.25M 5-Ethylthio-1H-tetrazole in Acetonitrile	
SR721-1	2x1L ²
BR721-2	4x2L
BR721-4x2.5L	4x2.5L ²
BR721-4	4x4L
BR721-20	20L NP11
BC721-56	56L SSPDS
BC721-200	200L SSPDS
0.50M 5-Ethylthio-1H-tetrazole in Acetonitrile	
BR725-1	2x1L ²
BR725-2.5GL	4x2.5L ²
BR605-56L	56L SSPDS
BR725-20	20L NP11
BC725-56	56L SSPDS
BC725-200	200L SSPDS
0.60M 5-Ethylthio-1H-tetrazole in Acetonitrile	
BR726-1	2x1L ²
BR726-4	4x4L
BC726-56	56L SSPDS
BR726-200	200L SSPDS
0.75M 5-Ethylthio-1H-tetrazole in Acetonitrile	
BR736-4x4L	4x4L
BR736-56L	56L SSPDS
BR736-200L	200L SSPDS

¹ US Patent 7,339,052

² 45mm bottle neck finish

CAPPING REAGENTS

CATALOG NUMBER	PACKAGE INFO
80% THF, 10% Acetic Anhydride, 10% 2,6-Lutidine (v/v/v)	
BR640-2	4x2L
BR640-4x2.5L	4x2.5L ²
BR640-4x4L	4x4L
80% THF, 10% Acetic Anhydride, 10% Pyridine (v/v/v)	
BR641-2	4x2L
BR641-4x2.5L	4x2.5L ²
BR641-4	4x4L
90% THF, 10% Acetic Anhydride (v/v)	
SR639-4	4x4L
CS639-200	200L SSPDS
50% Acetonitrile, 30% 2,6-Lutidine, 20% Acetic Anhydride (v/v/v)	
SR644-20	20L NP11
BR644-56L	56L SSPDS
BC644-200	200L SSPDS
84% THF, 16% N-Methylimidazole (v/v)	
BR650-2	4x2L
BR650-4x2.5L	4x2.5L ²
BR650-4	4x4L
BR650-200L	200L SSPDS
90% THF, 10% N-Methylimidazole (v/v)	
BR651-2	4x2L
BR651-4x2.5L	4x2.5L ²
BR651-4	4x4L
80% THF, 10% Pyridine, 10% N-Methylimidazole (v/v/v)	
SR653-4	4x4L
BR653ZA-200L	200L SSPDS

CATALOG NUMBER	PACKAGE INFO
80% Acetonitrile, 20% N-Methylimidazole (v/v)	
BR654-1	2X1L
BR654-2.5GL	4X2.5L ²
BR654-4X4L	4X4L
SR654-20	20L NP11
SR654-56	56L SSPDS
SR654-200	200L SSPDS
75% Acetonitrile, 25% Acetic Anhydride (v/v)	
BC732-56	56L SSPDS
BR732-200L	200L SSPDS
50% Acetonitrile, 30% Lutidine, 20% N-Methylimidazole (v/v/v)	
BC733-56	56L SSPDS
BR733-200L	200L SSPDS
60% Acetonitrile, 40% Acetic Anhydride (v/v)	
BR643-4X2.5L	4X2.5L ²
BR643-4X4L	4X4L
BR643-20L	20L
BR643-200L	200L SSPDS
60% Acetonitrile, 40% Lutidine (v/v)	
BR645-4X4L	4X4L
R645-20L	20L NP11
BR645-200L	200L SSPDS

¹ US Patent 7,339,052

² 45mm bottle neck finish



OXIDATION/SULFURIZATION REAGENTS

CATALOG NUMBER	PACKAGE INFO
78% THF, 20% Pyridine, 2% Water, 0.02M Iodine (v/v/v)	
BR663-2	4x2L
BR663-4x2.5L	4x2.5L ²
BR663-4	4x4L
90% Pyridine, 10% Water, 0.05M Iodine (v/v)	
BR664-2.5GL	4x2.5L ²
BR664-4	4x4L
SR664-20	20L NPII
BR664-56L	56L SSPDS
BR664-200	200L SSPDS
PTBR664-1100L	1100L SSPDS
89.6% THF, 10% Water, 0.4% Pyridine, 0.02M Iodine (v/v/v)	
BR665-4	4x4L

CATALOG NUMBER	PACKAGE INFO
70% THF, 20% Pyridine, 10% Water, 0.02M Iodine (v/v/v)	
BR666-2	4x2L
BR666-4x2.5L	4x2.5L ²
SR666-4	4x4L
SR666-20	20L NPII
BC666ZA-56	56L SSPDS
BC666ZA-200	200L SSPDS
80% Acetonitrile, 10% Pyridine, 10% Water, 0.05M Iodine (v/v/v)	
BR761-1GL	2x1L ²
BR761-4	4x4L
BN761-20	20L NPI
BC761-56	56L SSPDS
BC761-200	200L SSPDS

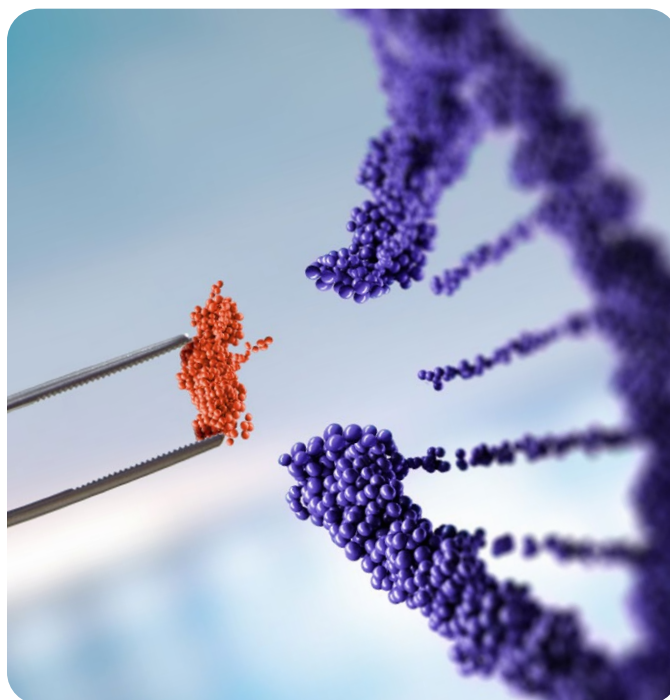
¹ US Patent 7,339,052

² 45mm bottle neck finish

BURDICK & JACKSON BIOSYN SOLVENTS AND RELATED PRODUCTS

CATALOG NUMBER	PACKAGE INFO
Acetonitrile³	
LC015-2.5	4x2.5L ²
LC015-4	4x4L
BB017-4	4x4L
BN017-20	20L NP11
BC017-56	56L SSPDS
BC017-200	200L SSPDS
BC017-1250	1250L SSPDS
34851-56L	56L SSPDS
34851-200L	200L SSPDS
PT34851-1100L	1100L SSPDS
Dichloromethane	
BB301-4	4x4L
BN301-20	20L NP11
BC301-200	200L SSPDS
Pyridine	
BB333-2.5L	2.5L ²
BB333-4	4x4L
BN333-20	20L NP11
BC333-200	200L SSPDS

CATALOG NUMBER	PACKAGE INFO
Tetrahydrofuran	
BB343-4	4x4L
BN343-20	20L NP11
BC343-56	56L SSPDS
BC343-200	200L SSPDS
SDA-3A Denatured Alcohol	
CS094ZA-1250L	1250L SSPDS



¹ US Patent 7,339,052

² 45mm bottle neck finish

³ Ideal for use as diluent and washing reagent

BURDICK & JACKSON BIOSYN™



Contact us at:

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Buy: lab.solstice.com



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