

# BURDICK & JACKSON™ BIOSYN™ REAGENTS & SOLVENTS

for DNA/RNA synthesis

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Europe

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**Honeywell**



# DNA AND RNA SOLVENTS AND REAGENTS

Burdick & Jackson™ BioSyn™ solvents and reagents are specially processed and purified to exacting specifications, ensuring outstanding synthesis efficiency. This makes them ideal for oligonucleotide synthesis regardless of the application.

## FEATURES

- High purity reagents to ensure high yields of finished products
- Batch-to-batch consistency and tight specifications for predictable results
- Low-water specifications on solvents drive efficient reactions
- Flexible packaging options connect directly to popular synthesizers

## PACKAGING OPTIONS

- 45L, 200L, 1100L, 1400L Stainless Steel Containers\*
- Choice of containers with integrated dip tubes: sealed for transport or fully-sealed for transport and production.\*

\* Requires signup to the Returnable Container Program

## BENEFITS

- High quality Solvents & Reagents
- Custom formulations and specifications available
- Fully sealed containers minimize vapors for safer labs and environmental intrusion for optimized shelf life

The BioSyn™ product line includes a wide range of DNA and RNA synthesis reagents, including Deblocking, Activator and Capping reagents, as well as Oxidation reagents and low-water solvents and related products. BioSyn™ products address the needs of users in pharmacogenomics, diagnostics and drug discovery technologies and produce quantities that range from lab scale through production levels.

Burdick & Jackson™ BioSyn™ solvents and reagents are available in a range of package sizes, from glass bottles to 1,400L bulk containers. Flexible packaging options connect directly to popular synthesizers.

Honeywell continues to expand the Burdick & Jackson™ BioSyn™ line of products to accommodate novel chemistries and formulations.

We invite scientists to contact our technical experts, in order to discuss custom reagent formulations, specifications and packaging requirements.





## DEBLOCKING REAGENTS (DETRITYLATION)

- 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)

## ACTIVATOR REAGENTS

### BMI

- 0.30M 5-Benzylthio-1H-tetrazole, 0.5% NMI, 99.5% Acetonitrile<sup>1</sup>

### 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

## CAPPING REAGENTS

- 10% Acetic Anhydride, 10% 2,6-Lutidine, 80% THF (v/v/v)
- 10% Acetic Anhydride, 10% Pyridine, 80% THF (v/v/v)
- 10% Acetic Anhydride, 90% THF (v/v)
- 20% Acetic Anhydride, 30% 2,6-Lutidine, 50% Acetonitrile (v/v/v)<sup>3</sup>
- 16% N-Methylimidazole, 84% THF (v/v)
- 10% N-Methylimidazole, 90% THF (v/v)
- 10% N-Methylimidazole, 10% Pyridine, 80% THF (v/v/v)
- 20% N-Methylimidazole, 80% Acetonitrile (v/v)

## OXIDATION REAGENTS

- 0.02M Iodine, 2% Water, 20% Pyridine, 78% THF (v/v/v)
- 0.05M Iodine, 10% Water, 90% Pyridine (v/v)
- 0.02M Iodine, 10% Water, 0.4% Pyridine, 89.6% THF (v/v)
- 0.02M Iodine, 10% Water, 20% Pyridine, 70% THF (v/v/v)
- 0.05M Iodine, 10% Water, 10% Pyridine, 80% Acetonitrile (v/v/v)

## BURDICK & JACKSON™ BIOSYN™ SOLVENTS AND RELATED PRODUCTS

- Acetonitrile<sup>4</sup>
- Dichloromethane
- Pyridine
- Tetrahydrofuran
- Triethylamine
- Trifluoroacetic acid

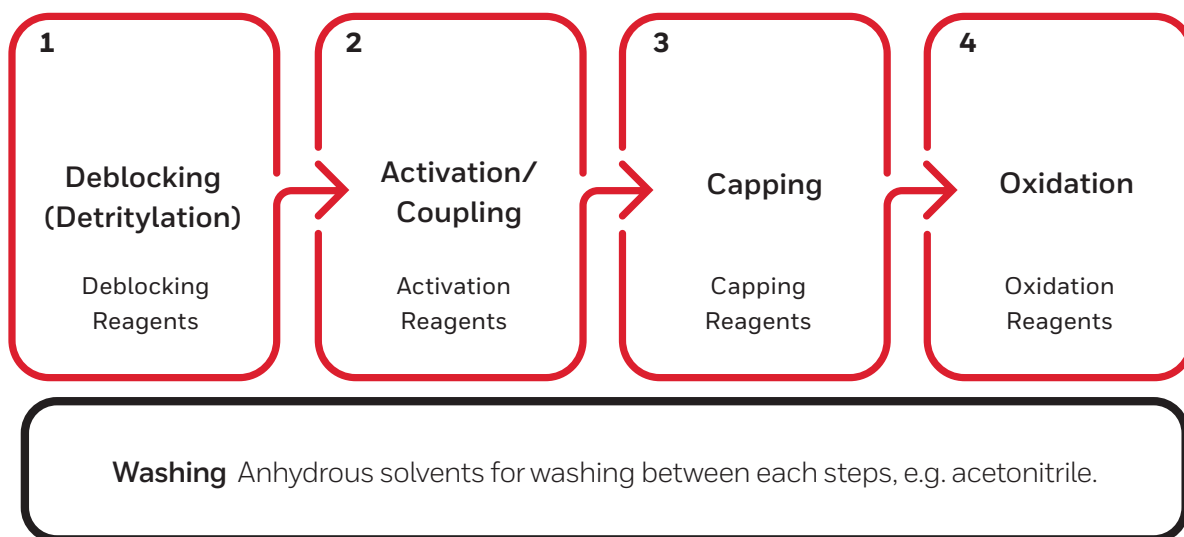


<sup>1</sup> US Patent 7,339,052

<sup>3</sup> GE Healthcare product designation for this formulation: Capping B

<sup>4</sup> Ideal for use as diluent and washing reagent

## OLIGONUCLEOTIDE SYNTHESIS



**Have a unique formulation?**

**Contact us at <https://lab.honeywell.com/>**

### For more information

To learn more about

Honeywell Research Chemicals, visit

[www.lab.honeywell.com](http://www.lab.honeywell.com) or contact

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