



Bioreagents that deliver the purity you need
with the consistency
you've come to expect.

A CENTURY OF EMPOWERING DISCOVERY™



Consistency. Safety. Performance. Purity.

What else can you ask for in a bioreagent?

Minimize variables with ULTRAPURE BIOREAGENTS.

Ever since J.T.Baker was founded over a century ago, we've believed that the more pure and the more consistent chemicals are, the better your results will be. That's also the basic premise behind our ULTRAPURE BIOREAGENTS.

These chemicals expand your control and help you reduce variables in the experimental process. Our ULTRAPURE

BIOREAGENTS deliver these crucial parameters to molecular biologists:

- Assay purity ranging from 98% to above 99.9%
- No detectable DNase, RNase and Protease
- Low heavy metal content
- Low insolubles

Easy cleaning with Protocol C³ sterile cleansers.

Protocol C³ products provide the ultimate in Cleaning with Compliance for Critical environments. This family of sterile cleansers is cGMP-manufactured, USP sterility tested, Class-100 double-bagged, and packaged in convenient aerosol cans and polyethylene containers. This product line is suitable for surface cleaning throughout your facility and used extensively in laboratories and aseptic manufacturing areas.



Building better biological buffers.

Used for cell biology, molecular biology and industrial biopharmaceutical applications, our biological buffers or “Good” buffers are non-toxic to cells, can’t be absorbed through cell membranes, and feature pKa values at or near physiological pH. These buffers are part of the ULTRAPURE BIOREAGENT family. ULTRAPURE BIOREAGENTS are characterized by high assay, low insolubles and heavy metals, and the absence of DNase, RNase, and Protease.

Description	Product No.	pKa @20° C	pH Range
CAPS, ULTRAPURE BIOREAGENT	4118	10.4	9.7 – 11.1
CHES, ULTRAPURE BIOREAGENT	4146	9.3	8.6 – 10.0
CHES, Sodium Salt, ULTRAPURE BIOREAGENT	4147	9.3	8.6 – 10.0
HEPES, Free Acid, ULTRAPURE BIOREAGENT	4018	7.5	6.8 – 8.2
HEPES, Sodium Salt, ULTRAPURE BIOREAGENT	4153	7.5	6.8 – 8.2
MES, Monohydrate, Free Acid Crystalline, ULTRAPURE BIOREAGENT	4014	6.1	5.5 – 6.7
MOPS, ULTRAPURE BIOREAGENT	4004	7.2	6.5 – 7.9
MOPS, Sodium Salt, ULTRAPURE BIOREAGENT	4163	7.2	6.5 – 7.9
PIPES, ULTRAPURE BIOREAGENT	4265	6.8	6.1 – 7.5
PIPES, Sodium Salt, ULTRAPURE BIOREAGENT	4266	6.8	6.1 – 7.5
Tris, ULTRAPURE BIOREAGENT	4109	8.1	7.0 – 9.0
Tris, Biochemical Reagent	4099	8.1	7.0 – 9.0
Tris Hydrochloride, ULTRAPURE BIOREAGENT	4103	8.1	7.0 – 9.0

How does your Tris compare?

Tris (Base)	J.T.Baker	Sigma	Fisher	AMRESCO	Research Organics	EMD
Product No.	4109	T6066	BP152	0826	9680T	9210
Actual Lot Analysis	Yes	No	No	No	No	No
Appearance	X	X	-	X	-	X
Assay	99.9%	99.9%	99.8%	99.8%	99.0%	99.8%
# Enzyme Tests ¹	3	3	3	3	2	3
Insolubles	X	-	-	X	-	X
Absorbance	3	3	1	1	-	1
Metals, Ions	7	1	5	5	1	5
Melting Point	X	X	-	-	info only	-
pH	X	X	X	-	X	-
Moisture, Water	X	X	X	X	X	X
Total No. of Parameters Tested	26	24	13	13	12	14

¹ – DNase, RNase, Protease

Stop gels from sticking.



SafetyCoat™ nontoxic glass plate coating is a smart, safer alternative to often-toxic silanizing reagents. The SafetyCoat product prevents gels from sticking to the treated surface when the plates are separated. It may be applied safely at the bench, and a single application lasts for several electrophoresis runs — saving you time and money. It may also be used to coat microfuge tubes and other plasticware.



The most informative reading in bioscience.

Molecular biology procedures often require the use of hazardous chemicals. To alleviate safety concerns, J.T.Baker provides critical safety and product information where you need it most — right on the label. J.T.Baker's labeling system is an easy-to-understand hazard classification system, allowing lab personnel to quickly determine proper chemical storage, hazard ratings and required protective equipment. The SAF-T-DATA™ label goes beyond the requirements of the NFPA to include risks in the laboratory setting. Our labels feature easy-to-recognize ratings for key laboratory hazards — Health, Flammability, Reactivity and Contact. All so you can have a safer, more productive facility.

Safety information round-the-clock.

J.T.Baker systems give you access to critical safety information when you need it. Our Web site — www.jtbaker.com — lets you instantly download MSDSs and Certificates of Analysis. We also provide MSDSs on CD-ROM and through our BakerFACTS™ fax-on-demand system. Access this system from your touch-tone phone anytime, day or night, and receive the information you need via fax. J.T.Baker® safety products help educate employees about, and how to eliminate, potential laboratory chemical hazards. These products include: safety training seminars, spill cleanup products and video training programs.

Solv-IT Center™ Knowledge Base: your desktop technical resource.

If you need detailed information about J.T.Baker products and services, there's an effortless, speedy way to find it. Just log on to our Web site and look for the Solv-IT Center link. This easy-to-use knowledge base stores information about J.T.Baker products and services. You can browse through existing answers to find useful information, search the database for specific topics or ask a new question. The Solv-IT Center system automatically offers several possible answers to your question or routes them to the appropriate experts for a prompt response.



Just a few of our bioreagents designed to empower discovery.

Biological Buffers and Buffer Components

Ammonium Sulfate
Boric Acid
CAPS
CHES
CHES, Sodium Salt
Creatinine
D (-) Fructose
D (+) Galactose
D (+) Maltose, Monohydrate
D (+) Xylose
DL-Aspartic Acid
DL-Methionine
EDTA
Glycine
Guanidine Thiocyanate
HEPES, Free Acid
HEPES, Sodium Salt
Imidazole
L (-) Cystine
L (-) Tyrosine
L (+) Arabinose
L (+) Arginine Monohydrochloride
L (+) Ascorbic Acid
L (+) Cysteine Hydrochloride, Monohydrate
L (+) Glutamic Acid
L (+) Histidine
L Phenylalanine
MES, Monohydrate, Free Acid
MOPS
MOPS, Sodium Salt
N-Acetyl-L (+) Cysteine
PIPES
PIPES, Sodium Salt
Potassium Phosphate, Dibasic

Potassium Phosphate, Monobasic

Raffinose, 5-Hydrate
Sodium Acetate, Trihydrate
Sodium Chloride
Sodium Citrate
Sodium Phosphate, Dibasic
Sodium Phosphate, Monobasic
Sorbic Acid
Sorbitol
Tris (Base)
Tris Hydrochloride
Tris, for Chromatography
Tris, for Molecular Biology
Tris-Borate-EDTA, 10X

Purification Products

Ammonium Sulfate
Cesium Chloride
Cesium Sulfate
CHAPS
Dithiothreitol (DTT)
Formamide
Fructose, Low Glucose
Glycerol
Guanidine Hydrochloride
Guanidine Hydrochloride, 8M Solution
Guanidine Thiocyanate
Lithium Chloride
L-Tyrosine, Disodium Salt, Dihydrate
Magnesium Acetate, 4-Hydrate
Phenol, Fused
Polyethylene Glycol 8000 (PEG 8000)
Sodium Acetate, Anhydrous
Sodium Dodecyl Sulfate
Sucrose
Urea

Gel Products

6% PreMix Acrylamide/Bis Solution
6% PreMix Explorer Gel Solution
8% PreMix Acrylamide/Bis Solution
8% PreMix Explorer Gel Solution
Acrylamide/Bis 19:1, 40% Solution
Acrylamide/Bis 29:1, 40% Solution
Acrylamide/Bis 37.5:1, 40% Solution
Agarose (High Gel Temperature)
Agarose, for Northern and Southern Blotting
Agarose, for Routine Applications
Agarose, Low Melting
Agarose, PFGE
Explorer Gel Solution, 40% Concentrate
N,N'-Methylenebisacrylamide

Electrophoresis Chemicals

2-Mercaptoethanol
Agarose, Standard, Low Electroendosmosis
Ammonium Persulfate
Bisacrylamide
Boric Acid
Bromophenol Blue, Sodium Salt
EDTA
Ethidium Bromide
Formamide
Glycine
TEMED
Urea
Stains and Dyes
Bromophenol Blue, Sodium Salt
Ethidium Bromide

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