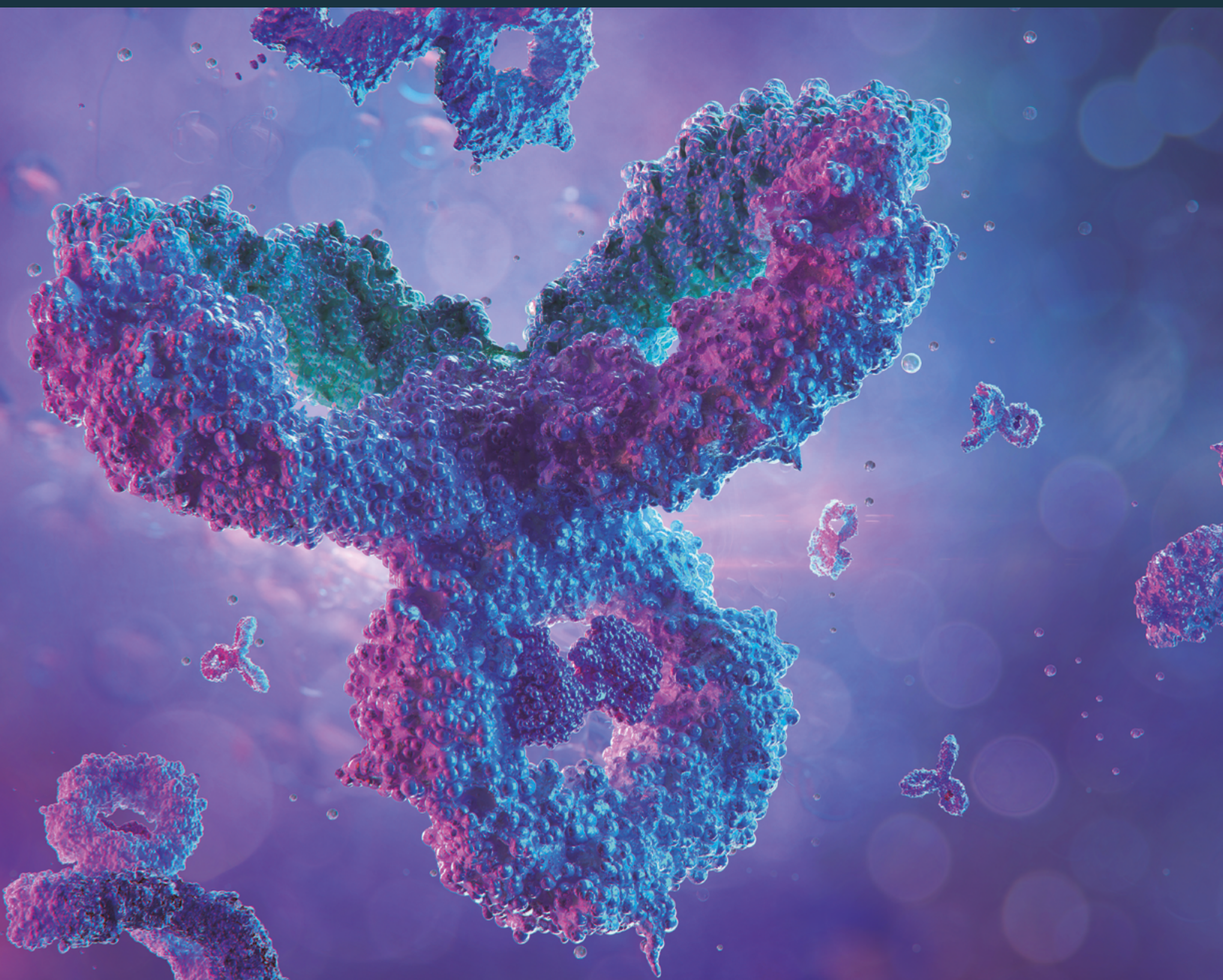
GREENFIELD GLOBAL

Biologics

Column care strategy and buffer preparation support for purification, process performance, and manufacturing scale-up



High-Purity Solutions for Biologics Manufacturing

Supporting critical process steps across biologics modalities.

Protein Therapies | Vaccines | Plasma-Derived Therapies | Peptides & Oligonucleotides | Cell & Gene Therapies

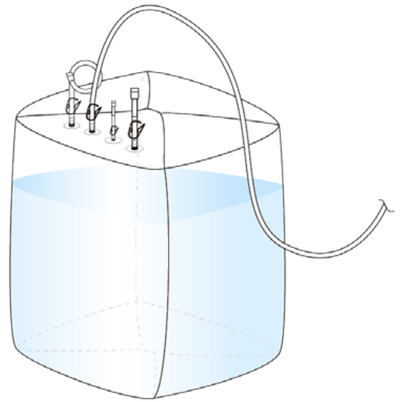
As biologics processes scale, consistency across processing buffers, column care solutions, and supporting operations can directly influence process performance, yield, and reproducibility. Teams work to control variability and maintain process consistency, particularly in high-frequency critical operations. Consistent, well-defined solutions reduce variability, maintain process efficiency, and support reliable performance as operations scale.

Ready-to-Use Solutions with Single-Use Options

As biologics processes scale, consistent preparation and delivery of buffers and supporting solutions become increasingly important to process performance and reproducibility.

Custom-prepared solutions and single-use bag systems help reduce variability, simplify material handling, and support reliable operations:

- Defined concentrations delivered ready to use
- Reduced handling and dilution steps
- Improved batch-to-batch consistency
- Scalable formats from development through manufacturing



Buffer Preparation & Custom Blends

As processes scale, manual preparation can become a source of variability. This drives demand for consistent, ready-to-use solutions that:

- Support consistent pH, conductivity, and product specifications
- Support reproducibility across purification workflows

We offer:

- Sodium Hydroxide
- Benzyl Alcohol
- Ethanol
- Ethylene Glycol
- Hexylene Glycol
- Propylene Glycol
- Water for Injection (WFI)
- Process Salts (phosphates, citrates)

How We Support Critical Workflows

By working at the application level, we help support reproducible performance and scale-up readiness across your processes.

Column Care Strategy

Effective column care strategies help maintain resin performance, extend cycle life, and support process reproducibility

We offer:

Regeneration

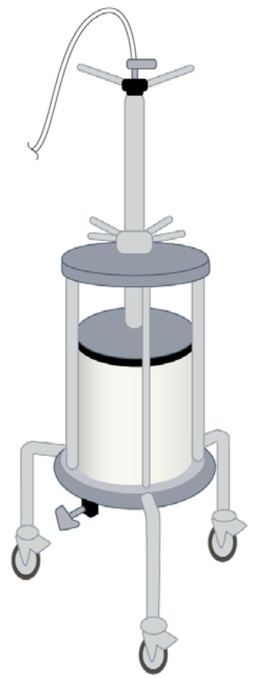
- Sodium Hydroxide
- Acetic Acid
- Phosphoric Acid

Cleaning

- Sodium Hydroxide
- Sodium chloride
- Acetic Acid
- Ethanol
- IPA

Storage

- Ethanol (20%)
- Benzyl Alcohol
- Sodium Hydroxide
- Sodium Chloride
- Preservative Buffers



Supporting Operations

In addition to process-specific applications, high-purity products are commonly used in:

- Bioreactor and equipment cleaning
- Media and buffer preparation
- General CIP and facility support
- Routine processing and intermediate cleaning operations

These applications often involve frequent use, large volumes, and direct impact on process consistency. They require reliable supply, traceability, and product quality to support reproducible operations across manufacturing workflows.

We offer:

- Custom blends of ethanol and IPA, with acids, bases, salts, or compedial-grade water

Greenfield Global for Biologics Manufacturing

High-Purity Solvents & Process Support from Development through Commercial Manufacturing

Chemical	CAS#
Acetic Acid	64-19-7
Acetonitrile	75-05-8
Benzyl Alcohol	100-51-6
Ethanol (Ethyl Alcohol)	64-17-5
Ethylene Glycol	107-21-1
Hexylene Glycol	107-41-5
Isopropyl Alcohol (IPA)	67-63-0
Phosphoric Acid	7664-38-2
Propylene Glycol	57-55-6
Sodium Hydroxide	1310-73-2
Water for Injection (WFI)	7732-18-5

High-purity alcohols and solvents for critical applications

Custom blending and high-concentration optimization

Vertically integrated supply chain with end-to-end visibility and traceability

Global compendial-grade options available to meet quality requirements

Access product list

Request a sample

GREENFIELD GLOBAL

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