

BIOMEDICAL MATERIALS

for Research & Development

Product Catalog

Covering tissue engineering, drug delivery, diagnostic research, implant studies, and biomanufacturing, helping researchers and industry partners quickly discover the right biomedical materials.

5,113+
PRODUCTS

CORE PRODUCT CATEGORIES

**Biomaterial
Polymers**



**Hydrophilic
Polymers**



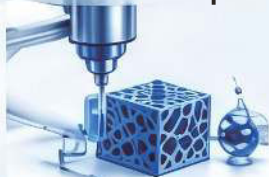
**Hydrophobic
Polymers**



**PEGs & PEOs
(PEG Modifiers)**



3D Bioprinting



Monomers



**Polymer Microspheres
& Nanoparticles**



APPLICATION AREAS



**Tissue
Engineering**



**Drug
Delivery**



**Diagnostic
Research**



**Implant
Studies**



**Biomanufacturing/
3D Bioprinting**



For the full catalog and
custom solutions, please visit:
www.aladdinsci.com



BIOMEDICAL MATERIALS SOLUTIONS & SELECTION GUIDE

A Systematic Support Platform for Research and Translational Applications



KEY MATERIAL SELECTION FACTORS



Chemical structure and functional group compatibility



Biocompatibility and cellular response



Processing method and fabrication compatibility



Mechanical properties and structural stability



Degradation pathway and metabolic behavior control



Surface/interface and protein adsorption regulation



Functionalization and molecular weight considerations



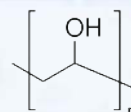
Compatibility with the intended research application

REPRESENTATIVE CORE PRODUCTS

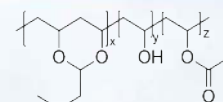
OP-10 Surfactant



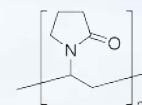
Poly(vinyl alcohol)
(PVA), 1795 Type



Butvar® B-76
Poly(vinyl butyral) (PVB)



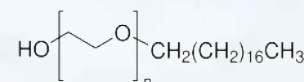
Polyvinylpyrrolidone
(PVP)



Tetracalcium Phosphate
(TTCP)



Brij® S20



TYPICAL SOLUTIONS

Tissue Engineering
& Regenerative
Materials



- Hydrogels
- PEG-PVA Systems
- Scaffold Construction Materials

Drug Delivery & Sustained Release Systems



- Emulsion Systems
- Hydrogels / Films
- Adhesion / Thin Films
- Carrier Stabilization

Diagnostic & Bioimaging Materials



- PVP / Microsphere Carriers
- PEG Surface Modification

Biomanufacturing
& 3D Construct Materials



- Bioinks
- Photosensitive Resins
- Printable Polymers

Core Material Engineering Capabilities



- Interface/Surface Modification
- Environment-Responsive Materials
- Multi-scale Structural Construction
- Controlled Release & Transport
- 3D Fabrication Process Adaptation

OUR ADVANTAGES



Diverse and high-quality product portfolio



Application-driven technical support



Stringent quality control & traceability



Custom synthesis and formulation capabilities



Reliable and global supply network



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