

AT YOUR SIDE, WITH THE  
**RIGHT**  
SOLUTION.

PLANT TISSUE CULTURE  
PRODUCTS TO ENSURE  
YOUR SUCCESS



SIGMA® | ALDRICH® | Fluka® | SUPELCO® | SAFC®

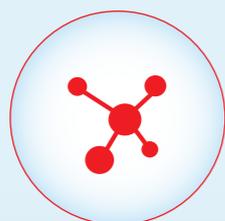
SIGMA-ALDRICH®

**Sigma-Aldrich's combination of qualified plant tissue culture products and global business capabilities help customers maintain reagent consistency and suitability.**

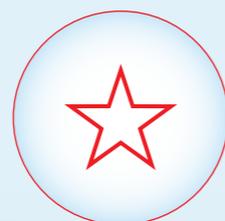
Products are made available on six continents through Sigma-Aldrich's global distribution network, making us the perfect partner to ensure regional availability and enable reagent standardization.

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# A PARTNER YOU CAN TRUST



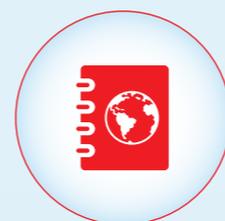
CHEMISTRY



EXPERIENCE



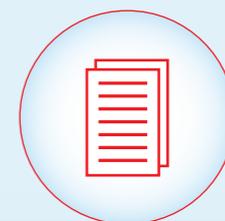
GLOBAL OPERATIONS



GLOBAL CITIZENSHIP



CAPABILITIES



PRODUCT LISTING





# Our Chemical Expertise Enables Plant Tissue Culture

## Tissue Culture Reagents are Chemicals

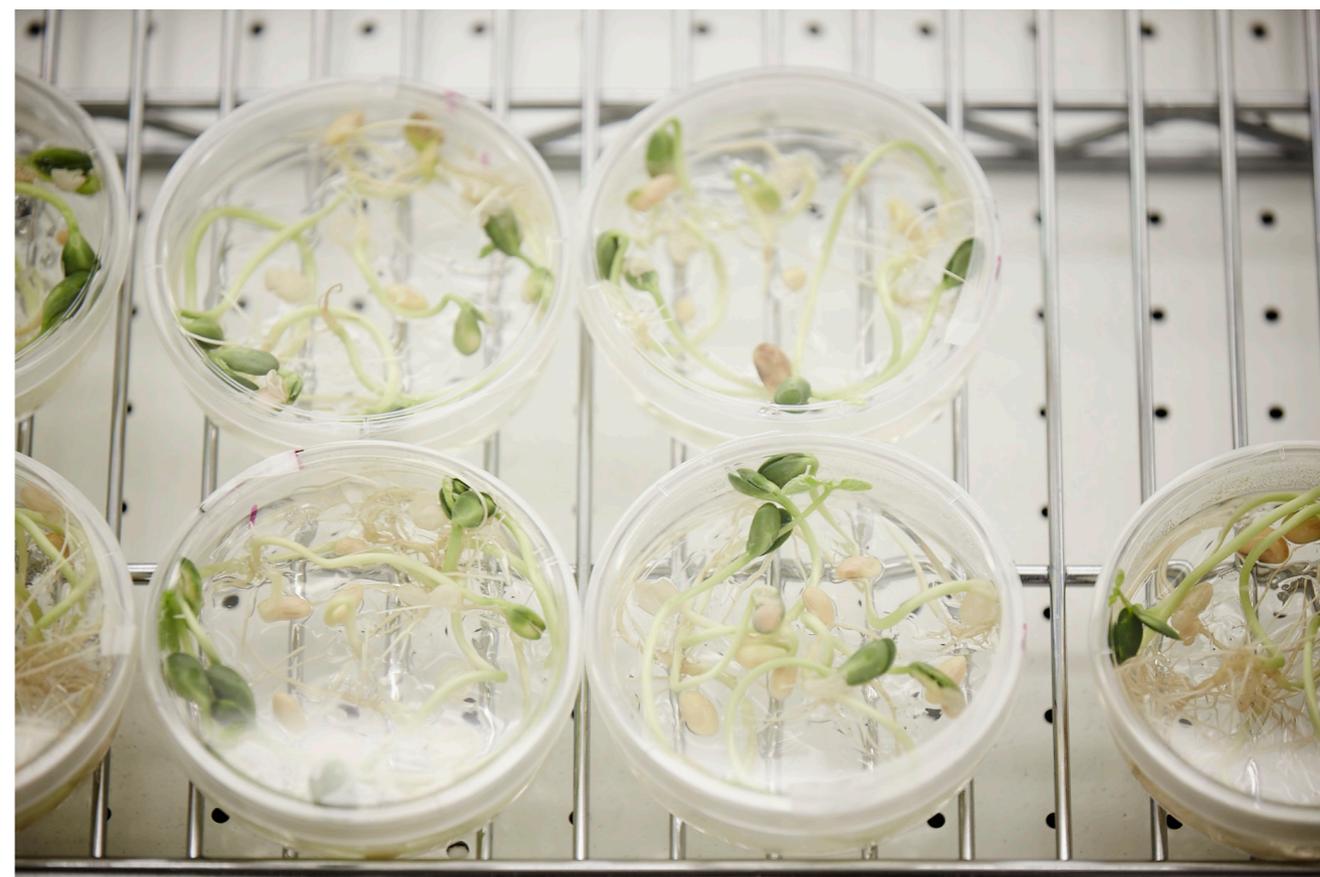
Plant culture media are a blend of organic and inorganic chemical compounds. Sucrose and thiamine are chemicals, just as 2,4-dichlorophenoxyacetic acid is a chemical. Each has a distinct chemical composition and properties that are assigned a unique numeric identifier by the American Chemical Society (CAS number).

## Specialty Chemicals are Sigma-Aldrich's Strength

Sigma-Aldrich provides the most comprehensive range of products and enabling technologies for chemical research. We have nearly 250,000 products with 167,000 chemicals and biochemicals and 50,000 chemicals manufactured in-house. Our unrivaled scientific knowledge allows us to meet the chemical needs of researchers.

## Tissue Culture Reagents are Sigma-Aldrich's Strength

Plant researchers have trusted Sigma-Aldrich for more than two decades and we remain committed to providing chemicals for plant culture use. Our team of dedicated scientists ensures we are able to meet your off-the-shelf and custom requirements. Currently, we offer over 175 products that are assayed for their suitability in plant cell culture.





# Proven Performance Allows Us to Meet Your Expectations

## Quality is Our Reputation

Our commitment to quality is consistent across everything we do. The care and stringency that Sigma-Aldrich puts into manufacturing pharmaceutical compounds and diagnostic reagents extends to our manufacturing of plant culture chemicals.

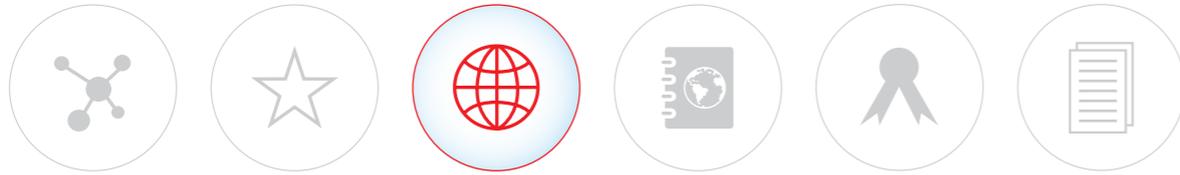
## Delivering Collaboration

As fellow scientists, we understand what you need to achieve your research goals. We know the obstacles in your way and can partner to deliver solutions to ensure you can focus on the challenge of feeding a growing population.

## Solution-oriented Customization

From plant breeding to crop protection, Sigma-Aldrich focuses on the special requirements of agriscience. We offer customers the ability to customize qualification assays to meet their specific needs.





# Global Locations That Serve Your Global Operations

## Global Presence

With 9,300 employees across 37 countries, Sigma-Aldrich has the personnel, infrastructure and facilities to meet your needs throughout the world.

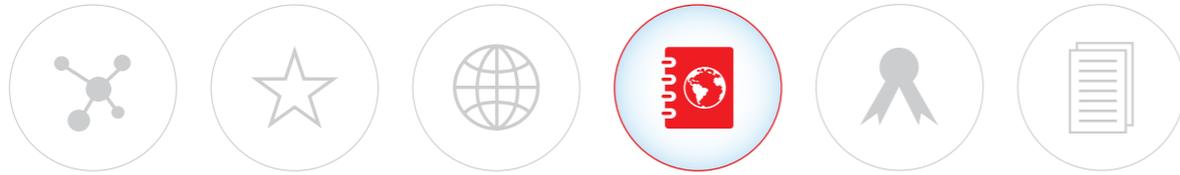
## Global Regulatory Knowledge

Working with a partner who understands your manufacturing and regulatory requirements is key to ensuring supply chain reliability. Sigma-Aldrich's vast experience and understanding of global supply chain management is unsurpassed.

## Global Supply Chain

Sigma-Aldrich allows researchers to standardize plant tissue culture reagents across multiple locations by using a single lot of material. We can utilize our global distribution capabilities and real-time inventory tracking to ensure reagents are available where and when you need them.





# Commitment to Supporting the Global Community

## Environmental Sustainability

- All facilities have a global environment management system to ensure sustainability from procurement to production
- Strategy to reformulate target products to reduce the environmental impact through research and development efforts

## Social Responsibility

- Committed to serving communities where we live and work
- Promote community spirit by establishing mutually beneficial relationships with communities touched by our business

## Fiscal Accountability

- Continue to build on the proven foundation of trust, service and innovation with honest and ethical business conduct
- Commitment to transparency, responsibility and compliance

## Awards and Recognition

- Member of the MSCI World SRI Index, 2012–2015
- The Civic 50 List, 2012–2014
  - #1 in Materials
- Corporate Responsibility (CR) Magazine’s 100 Best Corporate Citizens List, 2014
  - Also named 2010, 2011
  - Rakesh Sachdev named CR Magazine “CEO of the Year” in 2014
- Newsweek Green Rankings 2012 and 2014, #5 U.S. Company in 2014
- CDP Climate Disclosure Leader 2012–2014
- NYSE Euronext Vigeo World 120
- Natural Capital Efficiency Leader 2014
- Most Sustainable Corporations in the World – Global 100, 2014 and 2015
- Member of Dow Jones Sustainability Indices (In Collaboration with RobecoSAM)



# Capabilities to Meet Your Needs

## Custom Solutions from Development to Manufacturing

Inevitably, your projects will face challenges that are unique. You may need a new reagent formulation to improve the efficiency of a process, or the assurance of critical chemicals screened with additional QC specifications.

Our support beyond catalog products will help ensure your success. Learn more about our custom solutions:

- Reagent Formulation
- Product Modification
- Packaging
- Material Management
- QA and QC Specifications
- Global Distribution
- Order Management





# Product Listing

- **Gelling Agents**
  - Phytigel™, Gelzan™ and Agargel™
- **Plant Growth Regulators**
  - Colchicine
- **Culture Media, Salts and Vitamins**
  - Murashige and Skoog Media
- **Antibiotics**
  - Carbenicillin
- **Sugars**
  - Glucose, Mannose and Sucrose
- **Plasticware**
  - Phytatray™
- **Microbial Media**
  - L-Broth, Yeast Extract and SOC
- **Auxins & Cytokinins**
  - 2,4-Dichlorophenoxy acetic Acid
  - Zeatin
- **Amino Acids**
  - Glutamine, Arginine and Asparagine



To view a full list of targeted products for plant tissue culture, [click here](#).

## **SIGMA-ALDRICH®**

3050 Spruce Street, St. Louis, MO 63103  
**sigma-aldrich.com**

### **Place an Order/Customer Sales and Services:**

Web: [sigma-aldrich.com/order](http://sigma-aldrich.com/order)

Phone: 800-325-3010

Fax: 800-325-5052

Email: [custserv@sial.com](mailto:custserv@sial.com)

### **Product Safety:**

Phone: 800-521-8956 ext. 2143

Email: [productsafety@sial.com](mailto:productsafety@sial.com)

### **Technical Service:**

Web: [sigma-aldrich.com/techinfo](http://sigma-aldrich.com/techinfo)

Phone: 800-325-5832

Fax: 800-240-4668

Email: [techserv@sial.com](mailto:techserv@sial.com)

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