



Enabling Sustainable Science Through Responsible Manufacturing

At PakGent, we recognize that environmental sustainability is essential to the future of science, healthcare, and society. As a manufacturer of laboratory consumables used in life science research, diagnostics, biotechnology, and pharmaceutical development, we are committed to reducing our environmental footprint while supporting scientific innovation worldwide.

Our environmental strategy focuses on four key pillars:

- Sustainable Manufacturing
- Resource Efficiency
- Sustainable Product Innovation
- Responsible Packaging and Logistics

Through continuous improvement and responsible business practices, PakGent strives to create long-term environmental value across the entire product lifecycle.

Sustainable Manufacturing

Manufacturing with Environmental Responsibility

PakGent continuously invests in manufacturing technologies that improve efficiency and reduce environmental impact. Our production facilities focus on optimizing operational performance while minimizing resource consumption.

Key initiatives include:

- Improving production efficiency
- Reducing manufacturing waste
- Enhancing equipment utilization
- Promoting responsible resource management

By continuously refining production processes, PakGent seeks to reduce environmental impact without compromising product quality.

Energy Efficiency

Energy efficiency is a key component of our environmental management approach.

PakGent works to improve operational efficiency through:

- High-efficiency manufacturing equipment
- Process optimization initiatives
- Preventive equipment maintenance
- Continuous monitoring of energy consumption

Our goal is to reduce energy usage per unit produced while maintaining high-quality manufacturing standards.

Water Resource Management

Water is an important resource in industrial operations.

PakGent promotes responsible water management through:

- Monitoring water consumption
- Improving process efficiency
- Preventing unnecessary water loss
- Supporting water conservation initiatives

We are committed to improving water-use efficiency throughout our manufacturing operations.

Resource Efficiency and Waste Reduction

Responsible Material Management

PakGent products are manufactured using high-quality virgin polymers selected to meet stringent laboratory performance requirements.

To maximize resource efficiency, we focus on:

- Optimizing material utilization
- Reducing manufacturing scrap
- Improving molding precision
- Enhancing production yield rates

By minimizing material waste, we reduce environmental impact while maintaining product reliability.

Waste Reduction Initiatives

PakGent continuously works to reduce waste generation throughout manufacturing operations.

Key initiatives include:

- Process improvement programs
- Production yield optimization
- Material recovery efforts
- Responsible waste management practices

Our long-term objective is to minimize waste while maximizing operational efficiency.

Sustainable Product Innovation

Supporting More Efficient Laboratories

PakGent believes product sustainability extends beyond manufacturing.

Our products help laboratories improve efficiency, reduce resource consumption, and minimize experimental waste.

Low-Retention Pipette Tips

Low-retention technology helps researchers:

- Reduce sample loss
- Improve liquid recovery
- Minimize reagent consumption

Reducing reagent waste contributes to more sustainable laboratory operations.

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High-Purity PCR Consumables

PakGent PCR consumables are designed to reduce contamination risks and improve experimental reproducibility.

Benefits include:

- Reduced repeat experiments
- Improved workflow efficiency
- Lower resource consumption

By improving experimental success rates, laboratories can reduce unnecessary material usage.

Metal-Free Centrifuge Tubes

PakGent metal-free centrifuge tubes support:

- Trace element analysis
- Environmental monitoring
- Water quality testing
- IVF applications

By minimizing contamination risks, these products help laboratories obtain reliable results while reducing the need for repeated testing.

Sterile Cell Culture Products

Reliable sterile consumables contribute to:

- Reduced contamination rates
- Improved cell culture success
- Lower laboratory waste generation

Higher experimental success rates support more sustainable scientific research.

Responsible Packaging and Logistics

Sustainable Packaging

PakGent continuously evaluates packaging solutions to reduce environmental impact while ensuring product protection.

Our packaging initiatives focus on:

- Reducing unnecessary packaging materials
- Optimizing packaging design
- Increasing packaging efficiency
- Supporting recyclable packaging solutions

These efforts help reduce material consumption and transportation-related emissions.

Logistics Optimization

Efficient transportation contributes to lower environmental impact.

PakGent works to improve logistics efficiency through:

- Packaging volume optimization
- Improved pallet utilization
- Consolidated shipping practices
- Enhanced transportation planning

Our objective is to reduce transportation-related resource consumption throughout the supply chain.

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Supporting Environmental Science

PakGent products play an important role in laboratories conducting environmental research and monitoring.

Applications include:

- Water quality analysis
- Environmental DNA (eDNA) studies
- Heavy metal testing
- Environmental monitoring programs
- Food and environmental safety testing

By supporting environmental laboratories with reliable consumables, PakGent contributes to scientific efforts aimed at protecting ecosystems and public health.

Climate and Sustainability Vision

PakGent recognizes the importance of addressing global environmental challenges and supporting sustainable development.

Our long-term environmental goals include:

- Improving manufacturing efficiency
- Reducing resource consumption
- Expanding sustainable packaging initiatives
- Strengthening waste reduction programs
- Supporting environmentally focused scientific research

Through innovation, operational excellence, and responsible manufacturing, PakGent is committed to enabling sustainable science and creating a positive environmental impact for future generations.

Environmental Vision 2030

By 2030, PakGent aims to:

- Reduce energy consumption intensity across manufacturing operations
- Improve material utilization efficiency
- Expand recyclable packaging adoption
- Minimize manufacturing waste generation
- Enhance sustainability throughout the product lifecycle

We believe that environmental responsibility and scientific innovation must advance together.

Through sustainable manufacturing and continuous improvement, PakGent is committed to building a greener future for laboratories worldwide.

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