

# Pharmaceutical Packaging

- After many years of creating and producing various products for the Cold Chain industry, **Ripplepak** has developed a packaging system to protect pharmaceutical products that require a strict temperature-controlled environment during transportation.
- Most pharmaceutical goods must remain between 2-8 degrees Celsius. Recently there has been an increased demand for cold chain solutions at other temperature ranging between 2-30 degrees Celsius. **Ripplepak's** packaging meets these requirements.
- **Ripplepak** understands what is required to meet these specific requirements and may include ample padding material such as bubble wrap to prevent movement within the cooler.
- **Ripplepak** considers various aspects when designing the packaging which includes the transit time for shipping the temperature-controlled goods, where the cartons are to be stored and temperature of storage facilities when crossdocking.
- **Ripplepak** ensures that there is appropriate insulation to maintain consistency in temperature throughout the transit times.
- **Ripplepak** will assist in assuring that an appropriate coolant is selected to meet the required constant temperature.
- **Ripplepak** recognizes that protecting the medication from either heat or cold, regardless of the outside weather is essential to the viability of the product being shipped.
- **Ripplepak** understands the importance of being able to ensure that the primary and secondary packaging provides both the necessary protection and insulation to maintain a temperature range specific for the products being shipped.
- **Ripplepak** understands that one of the greatest risks in the supply chain of temperature-sensitive products is adulteration due to damage or temperature excursions.
- The packaging materials used do not interact physically or chemically with the packaged product in a manner that could cause its safety, identity, strength, quality, or purity to fail to conform to established requirements.

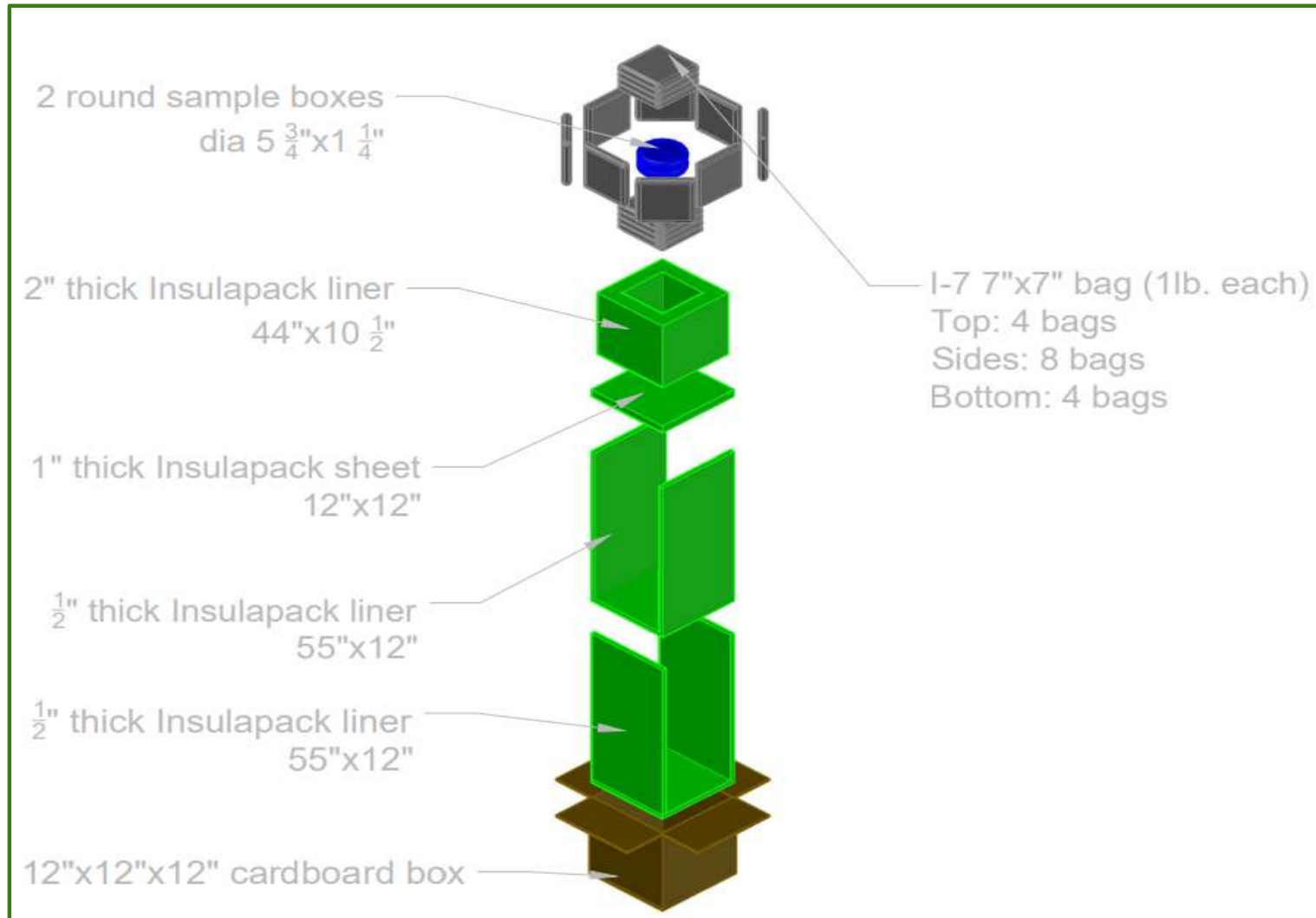


For Further information contact: **Ripplepak**  
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## Example of Insulation Makeup



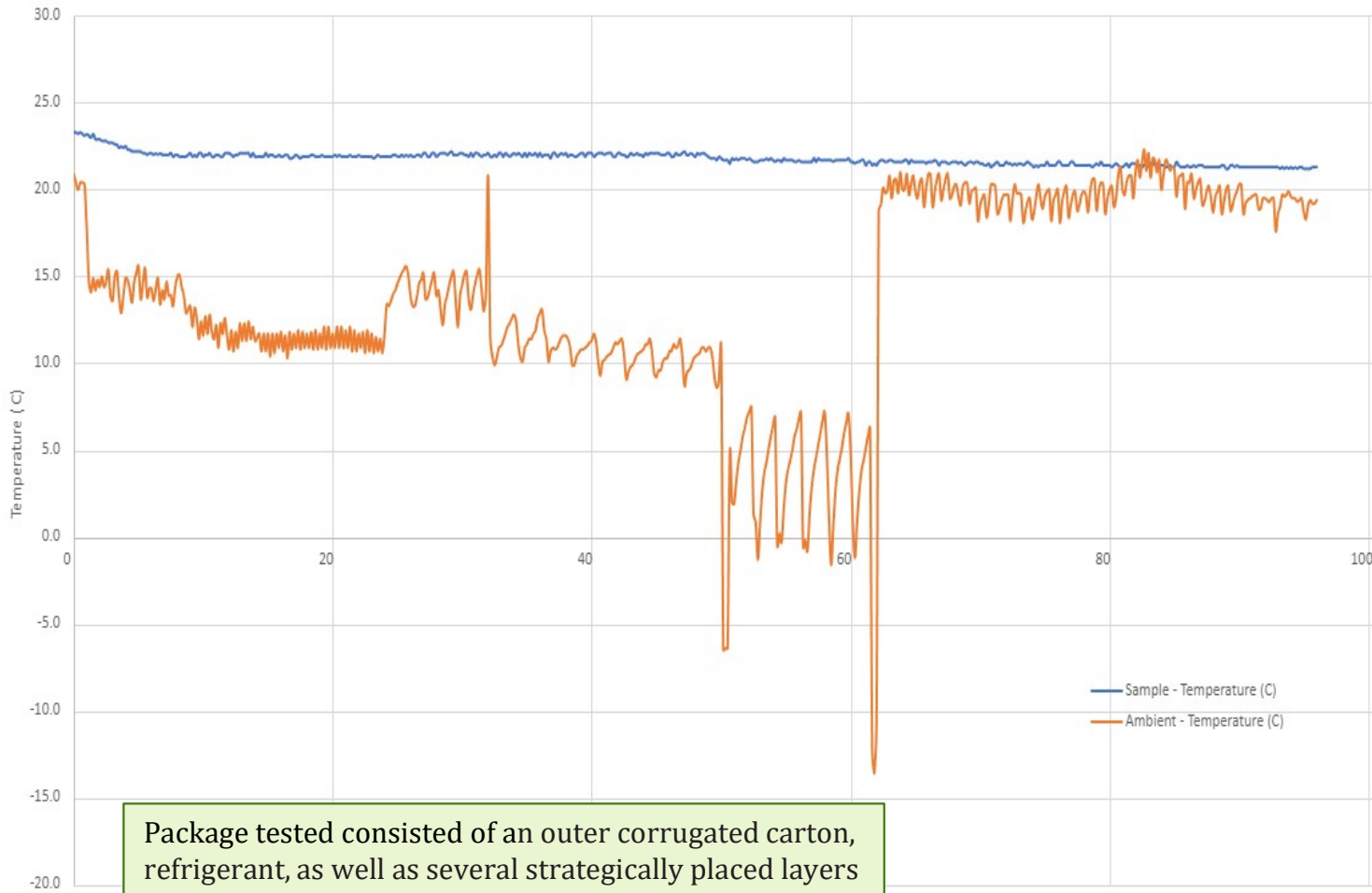
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## Testing Results

Biogenetic packaging 2022



Package tested consisted of an outer corrugated carton, refrigerant, as well as several strategically placed layers of Insulapak™ insulation.



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