

## TEST CONDITIONS & RESULTS

<b>Test Date:</b>	8/15/2007
<b>Unit Tested</b>	L001000532 B020000103
<b>Scope of Test</b>	Kodiak Cold Test to failure at -10C constant with maximum and mini-
<b>Test Profile</b>	Cold profile -10C constant
<b>Payload Max</b>	14.5 liters (29 500ml bottles) of water (31.92 lbs 14.5 kg)
<b>Payload Min</b>	2.73 liter bag of water (6 lb 2.8 kg) plus 1.32 lbs (2.9 kg) of Phase 5 PCM for cold stabilization (mfg recommendation).
<b>Payload Preconditioning</b>	7C
<b>Container Preconditioning</b>	
<b>Lid</b>	-20C Freezer
<b>TRU</b>	N/A
<b>Base</b>	Room Temp
<b>Test Chamber</b>	Thermotron S-16
<b>Logging Device</b>	NI Logger and Software
<b>Sensor Placement</b>	Multiple sensors used. Primary sensors for publishing were on payload and in ambient environment.
<b>Results Minimum</b>	The payload temperature remained above 2C for 28.13 hours from the time the temperature controller was set to -10C. The temperature continued to decrease slowly and reached zero C at 34.39 hours after the cold cycle was started.
<b>Results Maximum</b>	The payload temperature remained above 2C for 40.2 hours from the time the temperature controller was

## Distributed by:



### Kodiak Thermal Technologies, Inc. — Test Results

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Kodiak Thermal Technologies, Inc. — Test Results

## ATA R36 -11 °C Test to Failure Profile Qualification Results



*Revolutionizing the Cold Chain*



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### ATA R36 COLD TESTS SUMMARY 8-27-07

