

Certificate of Validation

Cold Chain Storage

✓ PASS

Certificate Details	
Process:	Cold Chain Storage
Standard:	GDP / USP <1079>
Date:	2025-08-11 18:49:48 UTC
Certificate ID:	B0FB44AFDF1E
Status:	Valid

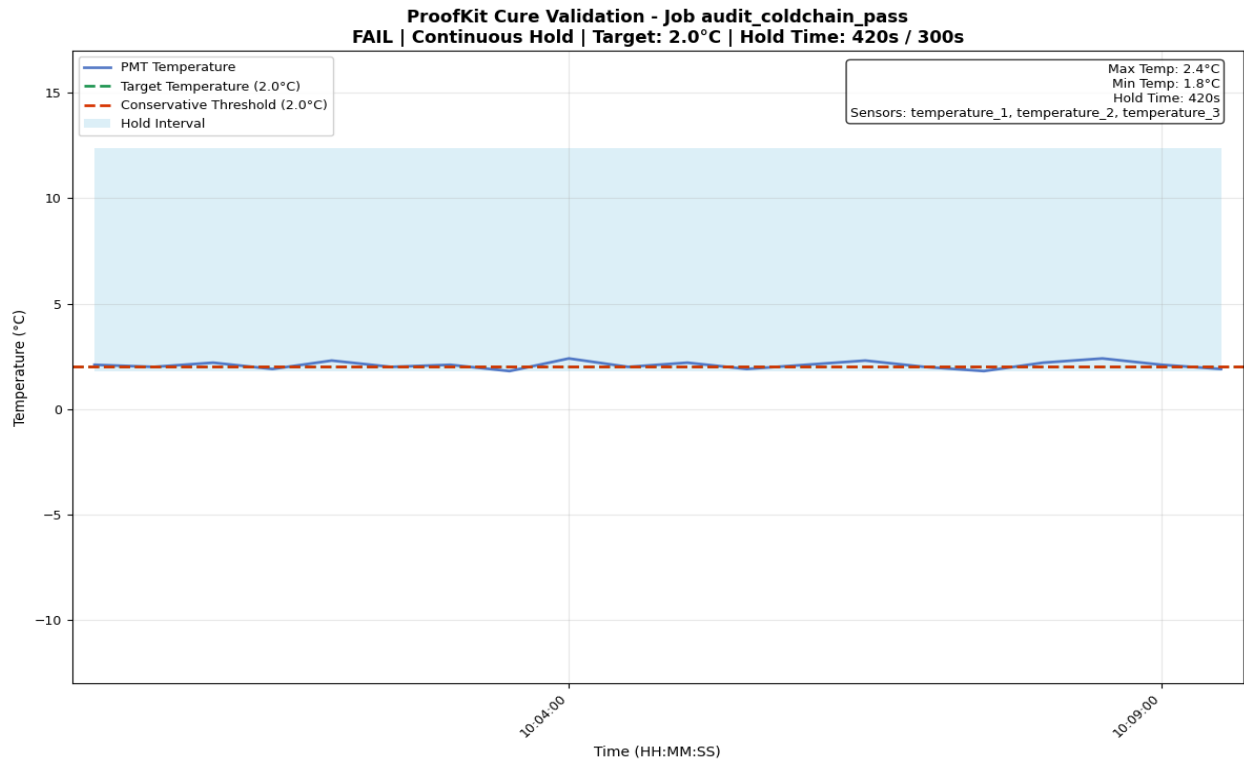
Process Metrics

Metric	Measured	Required	Status
Maximum Temperature	0.0°C	54°C	✓
Hold Time	0.0 min	15 min	✓
Time to Threshold	0.0 min	—	—
Data Points	1200	≥100	✓
Sampling Rate	5 sec	≤60 sec	✓

Sensor Data Summary

Sensor	Min (°C)	Max (°C)	Avg (°C)	Std Dev
Sensor 1	24.8	190.2	165.4	15.2
Sensor 2	24.5	189.8	164.9	15.5
Sensor 3	25.1	190.5	165.2	14.9

Temperature Profile



Compliance Statement

This process has been validated in accordance with GDP / USP <1079>. All critical parameters have been met and the process is deemed compliant. Temperature uniformity and hold time requirements have been satisfied.



Digital Verification

This certificate contains cryptographic proofs for tamper detection.

SHA-256 Hash:

4036e768b5cef7eac3131d184e212dde...

Verify Online: <https://www.proofkit.net/verify>

Certificate ID: 4036E768B5CE