

STATISTICAL ANALYSIS REPORT

Hypothesis Testing & Confidence Intervals

Project Ref SR-2024-089

Confidence Level 95% ($\hat{I} \pm 0.05$)

Test Method Independent T-Test

*** ($p < 0.001$)**

Control

Treatment

Variable	Mean (SD)	T-Statistic	P-Value	Result
Metric Alpha	42.5 (5.2)	3.42	0.0024	Significant
Metric Beta	12.1 (2.1)	1.15	0.2841	Insignificant

Note: Data visualization represents mean values. Error bars indicate standard error.