

# Forensic Analysis Report

Neuro-Symbolic Crisis Generator • Comprehensive Evaluation

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## Test Configuration

**Model:** GPT-4o

**Temperature:** 0.7

**Mode:** Thesis (Full Validation) vs. Legacy (Skip Validation)

**Max Iterations:** 20 per Scenario

**Execution:** Parallel (2 Scenarios simultaneously)

# Executive Summary

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**Note:** Limited batch comparison data available. For detailed analysis, see Forensic Analysis section below.

**2**

TOTAL SCENARIOS

**0**

HALLUCINATIONS PREVENTED

**0.00**

AVG LEGACY HALLUCINATIONS

**0.00**

AVG THESIS HALLUCINATIONS

**0.0%**

AVERAGE REDUCTION

# A/B Testing Comparison

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**A/B Testing Comparison**



# Statistical Significance Analysis

## Hypothesis Testing

**H0:**  $\mu_{\text{legacy}} = \mu_{\text{thesis}}$  (No difference)

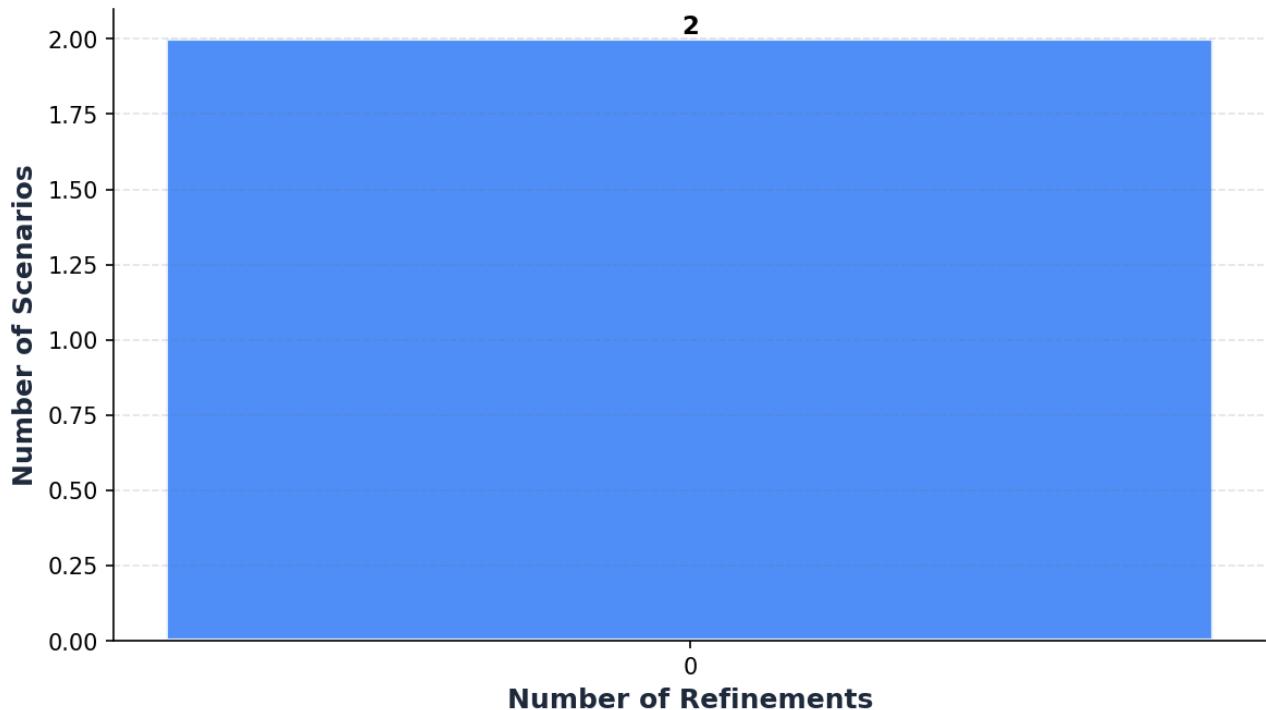
**H1:**  $\mu_{\text{legacy}} > \mu_{\text{thesis}}$  (Thesis reduces hallucinations)

Metric	Value	Interpretation
Mean Difference	0.000	Legacy - Thesis hallucinations
T-Statistic	nan	Test statistic
P-Value	NAN	Significance level
Cohen's d	0.000	Effect size: Negligible
95% CI	[0.000, 0.000]	Confidence interval
Sample Size	2	Number of scenarios

# Refinement Efficiency Analysis

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Refinement Distribution



**0.00**

AVG REFINES PER SCENARIO

**0**

MAX REFINES NEEDED

**100.0%**

FIRST ATTEMPT SUCCESS RATE

## Cost-Benefit Analysis

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**54**

Avg Legacy API Calls

**54**

Avg Thesis API Calls

**0.0%**

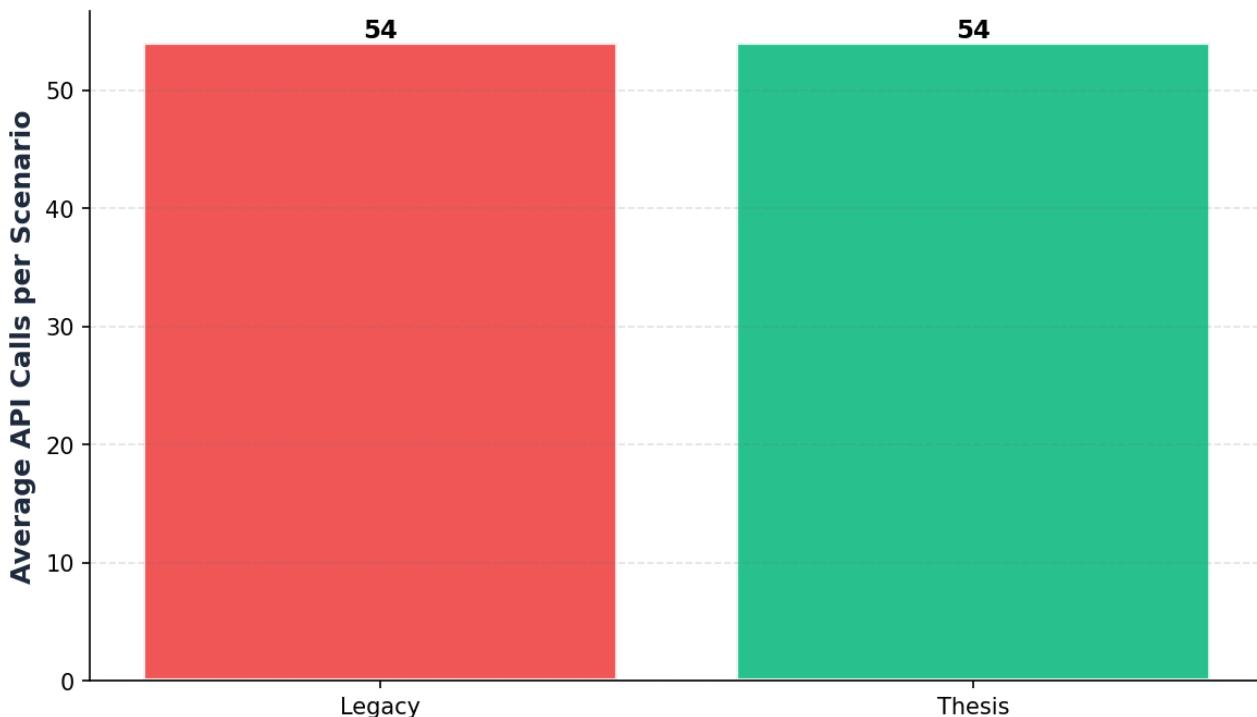
Overhead

**0**

Total Prevented

# API Call Efficiency

API Call Efficiency Comparison



## Detailed Results by Scenario

SCENARIO ID	LEGACY HALLUCINATIONS	THESIS HALLUCINATIONS	HALLUCINATIONS PREVENTED	THESIS REFINES
SCEN-000	0	0	0	0
SCEN-001	0	0	0	0