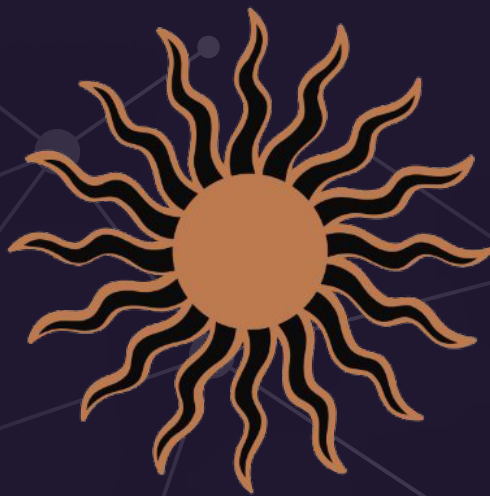




## TempleDAO - TPI Drip Security Review



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## 1. About SBSecurity

**SBSecurity** is a duo of skilled smart contract security researchers. Based on the audits conducted and numerous vulnerabilities reported, we strive to provide the absolute best security service and client satisfaction. While it's understood that 100% security and bug-free code cannot be guaranteed by anyone, we are committed to giving our utmost to provide the best possible outcome for you and your product.

Book a Security Review with us at [sbsecurity.net](https://sbsecurity.net) or reach out on Twitter [@Slavcheww](https://twitter.com/Slavcheww).

## 2. Disclaimer

A smart contract security review can only show the presence of vulnerabilities **but not their absence**. Audits are a time, resource, and expertise-bound effort where skilled technicians evaluate the codebase and their dependencies using various techniques to find as many flaws as possible and suggest security-related improvements. We as a company stand behind our brand and the level of service that is provided but also recommend subsequent security reviews, on-chain monitoring, and high whitehat incentivization.

## 3. Risk classification

|                    | Impact: High | Impact: Medium | Impact: Low |
|--------------------|--------------|----------------|-------------|
| Likelihood: High   | Critical     | High           | Medium      |
| Likelihood: Medium | High         | Medium         | Low         |
| Likelihood: Low    | Medium       | Low            | Low         |

### 3.1. Impact

- **High** - leads to a significant loss of assets in the protocol or significantly harms a group of users.
- **Medium** - leads to a moderate loss of assets in the protocol or some disruption of the protocol's functionality.
- **Low** - funds are not at risk.

### 3.2. Likelihood

- **High** - almost **certain** to happen, easy to perform, or highly incentivized.
- **Medium** - only **conditionally possible**, but still relatively likely.
- **Low** - requires specific state or **little-to-no incentive**.

### 3.3. Action required for severity levels

- High - **Must** fix (before deployment if not already deployed).
- Medium - **Should** fix.
- Low - **Could** fix.

## 4. Executive Summary

TEMPLE is a Treasury asset-backed token created by the TempleDAO team. By facilitating long-term, stable wealth creation with a community-first mindset, TEMPLE is a safe haven in a sea of risky assets. The spot price of TEMPLE is maintained by an AMO system that uses a book value metric called "Treasury Price Index" (TPI) as a price floor.

This audit is for the new TPI Drip logic.

### Overview

|             |                                                                                       |
|-------------|---------------------------------------------------------------------------------------|
| Project     | TempleDAO                                                                             |
| Repository  | <a href="https://github.com/TempleDAO/temple">https://github.com/TempleDAO/temple</a> |
| Commit Hash | 4b6b5bf418dff0545e4d92ebe6b0972f459c206e                                              |
| Timeline    | October 29, 2024                                                                      |

### Scope

TreasuryPriceIndexOracle.sol

### Issues Found

|               |   |
|---------------|---|
| Critical Risk | 0 |
| High Risk     | 0 |
| Medium Risk   | 0 |
| Low/Info Risk | 0 |