



Baby Alvey

Smart Contract Audit Report



ABOUT AUDITACE

Audit Ace is built, to combat financial fraud in the cryptocurrency industry, a growing security firm that provides audits, Smart contract creation, and end-to-end solutions to all crypto-related queries.

Website - <https://auditace.tech/>

Telegram - https://t.me/Audit_Ace

Twitter - https://twitter.com/auditace_

Github - <https://github.com/Audit-Ace>



Overview

AUDITACE team has performed a line-by-line manual analysis and automated review of smart contracts. Smart contracts were analyzed mainly for common contract vulnerabilities, exploits, and manipulation hacks.

Audit Result: **Passed With No Risk**

Audit Date: December 05, 2022

KYC :Done

Audit Team: TEAM AUDITACE

Result Details- Passed with No Risk



Disclaimer

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Used Tools

Manual Review - Forked Pancakeswap V2 on Local Blockchain + BSC Testnet

Tests:

- Deployment
- Adding Liquidity
- Buying and selling for everyone, right after adding liquidity
- Buy tax 3% and sell tax 3%
- Dividend tracker distributing rewards correctly
- Treasury wallet receiving bnb (tax)

Testnet Contract:

<https://testnet.bscscan.com/token/0xb7090f951a8223384c10ef903f25229cbfc851c4>



Token Summary

| Parameter | Result |
|-------------------|--|
| Address | - |
| Token Type | BEP 20 |
| Contract Checksum | 4ec818638b35d793dd9bb4d0126ca987e2862d40db5d4eb8be3d2daf6e75e28b |
| Decimals | - |
| Supply | 100, 000, 000, 000 |
| Platform | Binance Smart Chain |
| Compiler | v0.8.17+commit.8df45f5f |
| Contract Name | Baby Alvey |
| Symbol | bAlvey |
| License Type | - |
| Language | Solidity |

CONTRACT FUNCTION SUMMARY



Can edit Tax?

NOT DETECTED

Can take back Ownership?

NOT DETECTED

Is Blacklisted?

NOT DETECTED

Is Whitelisted?

NOT DETECTED

Is Mintable?

NOT DETECTED

Can transfer Pausable?

NOT DETECTED

Is Trading with CooldownTime?

NOT DETECTED

AUDIT METHODOLOGY

The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
 - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
 - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
 - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
 - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
 - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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Issues Checking Status

| No | Issue Description | Checking Status |
|----|---|-----------------|
| 1 | Compiler warnings. | Passed |
| 2 | Race conditions and Reentrancy. Cross-function race conditions. | Passed |
| 3 | Possible delays in data delivery. | Passed |
| 4 | Oracle calls. | Passed |
| 5 | Front running. | Passed |
| 6 | Timestamp dependence. | Passed |
| 7 | Integer Overflow and Underflow. | Passed |
| 8 | DoS with Revert. | Passed |
| 9 | DoS with block gas limit. | Passed |
| 10 | Methods execution permissions. | Passed |
| 11 | Design Logic. | Passed |
| 12 | Cross-function race conditions. | Passed |
| 13 | Safe Zeppelin module. | Passed |
| 14 | Malicious Event log. | Passed |
| 15 | Scoping and Declarations. | Passed |
| 16 | Fallback function security. | Passed |
| 17 | Arithmetic accuracy. | Passed |



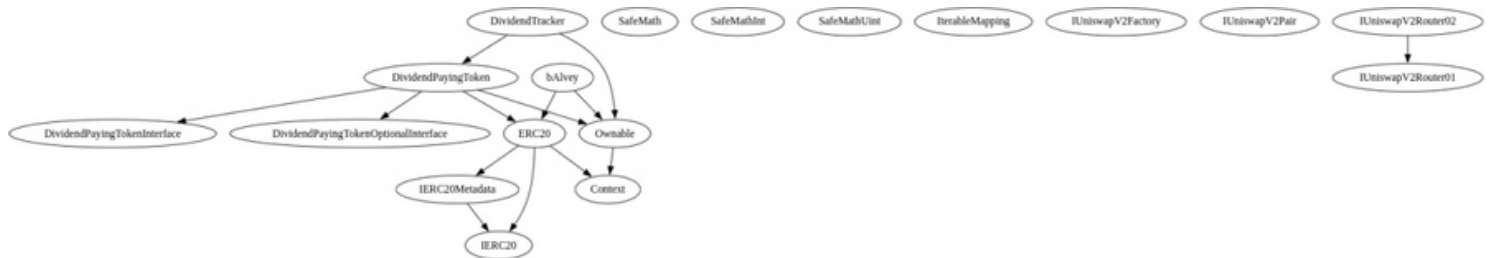
SWC ATTACK TEST

| SWC ID | Description | Test Result |
|---------|--------------------------------------|-------------|
| SWC-100 | Function Visibility | Passed |
| SWC-101 | Integer Overflow and Underflow | Passed |
| SWC-102 | Outdated Compiler Version | Passed |
| SWC-103 | Floating Pragma | Passed |
| SWC-104 | Unchecked Call Return Value | Passed |
| SWC-105 | Unprotected Ether Withdrawal | Passed |
| SWC-106 | Unprotected SELFDESTRUCT Instruction | Passed |
| SWC-107 | Re-entrancy | Passed |
| SWC-108 | State Variable Default Visibility | Passed |
| SWC-109 | Uninitialized Storage Pointer | Passed |
| SWC-110 | Assert Violation | Passed |
| SWC-111 | Use of Deprecated Solidity Functions | Passed |
| SWC-112 | Delegate Call to Untrusted Callee | Passed |
| SWC-113 | DoS with Failed Call | Passed |
| SWC-114 | Transaction Order Dependence | Passed |
| SWC-115 | Authorization through tx.origin | Passed |
| SWC-116 | Block values as a proxy for time | Passed |



| SWC ID | Description | Test Result |
|---------|---|-------------|
| SWC-117 | Signature Malleability | Passed |
| SWC-118 | Incorrect Constructor Name | Passed |
| SWC-119 | Shadowing State Variables | Passed |
| SWC-120 | Weak Sources of Randomness from Chain Attributes | Passed |
| SWC-121 | Missing Protection against Signature Replay Attacks | Passed |
| SWC-122 | Lack of Proper Signature Verification | Passed |
| SWC-123 | Requirement Violation | Passed |
| SWC-124 | Write to Arbitrary Storage Location | Passed |
| SWC-125 | Incorrect Inheritance Order | Passed |
| SWC-126 | Insufficient Gas Grieving | Passed |
| SWC-127 | Arbitrary Jump with Function Type Variable | Passed |
| SWC-128 | DoS With Block Gas Limit | Passed |
| SWC-129 | Typographical Error | Passed |
| SWC-130 | Right-To-Left-Override control character (U+202E) | Passed |
| SWC-131 | Presence of unused variables | Passed |
| SWC-132 | Unexpected Ether balance | Passed |
| SWC-133 | Hash Collisions with Multiple Variable Length Arguments | Passed |
| SWC-134 | Unencrypted Private Data On-Chain | Passed |

Inheritance Tree



Summary

- Owner is not able to set change taxes (3% buy and 3% sell)
 - Owner is not able to set a max amount for buys/sells/transfer
 - Owner is not able to pause trades
 - Owner is not able to mint new tokens
 - Owner is not able to blacklist an arbitrary address
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Classification of Risks

Severity

Description

| | |
|--|---|
| ◆ High-Risk | A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way. |
| ◆ Medium-Risk | A vulnerability that could affect the desired outcome of executing the contract in a specific scenario. |
| ◆ Low-Risk | A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective. |
| ◆ Gas Optimization / Suggestion | A vulnerability that has an informational character but is not affecting any of the code. |

Findings

Severity

Found

| | |
|---|---|
| ◆ High-Risk | 0 |
| ◆ Medium-Risk | 0 |
| ◆ Low-Risk | 0 |
| ◆ Gas Optimization / Suggestions | 0 |



MANUAL AUDIT

NO RISK FINDINGS

