TechRate
January, 2024

SMART CONTRACTS SECURITY AUDIT REPORT

Techrate_audits Techrate Techrate1

Audit Details

Audited project

Baby Not

Deployer address

0x7De4452693E2d6627dDa0a62b7539d127251f20B

Client contacts:

Baby Not team

Blockchain

Binance Smart Chain

Project website:

https://babynot.baby

Disclaimer

This is a limited report on our findings based on our analysis, in accordance with good industry practice as at the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, the details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report. While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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The analysis of the security is purely based on the smart contracts alone. No applications or operations were reviewed for security. No product code has been reviewed.

Background

TechRate was commissioned by Baby Not to perform an audit of smart contracts on commit:
https://bscscan.com/address/0xf17c326d4f15084648fcef9d64ecd1fc9d3c771d#code

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

Issues Checking Status

	Issue description	Checking status
1.	**Compiler errors.**	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.	**Economy model of the contract.**	Passed
12.	**The impact of the exchange rate on the logic.**	Passed
13.	**Private user data leaks.**	Passed
14.	**Malicious Event log.**	Passed
15.	**Scoping and Declarations.**	Passed
16.	**Uninitialized storage pointers.**	Passed
17.	**Arithmetic accuracy.**	Passed
18.	**Design Logic.**	Medium issues
19.	**Cross-function race conditions.**	Passed
20.	**Safe Open Zeppelin contracts implementation and usage.**	Passed
21.	**Fallback function security.**	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

1. Wrong transfer values

Issue:

- The function `_transfer()` sends transfer amount with taking burn and fee amounts from it even if sender account is excluded from fees.

Recommendation:
Revise logic of transferring tokens.

Low Severity Issues

No low severity issues found.

Owner privileges (In the period when the owner is not renounced)

- Owner can change burn and fee amounts.
- Owner can change fee address.
- Owner can exclude from the fee.

Contract: Not

✓ should deploy the token with the correct name and symbol (1143ms)

✓ should assign the initial supply to the deployer (1889ms)

✓ should change Auto Burn percentage (6572ms)

✓ should change fee percentage (7381ms)

✓ should change fee address (7578ms)

✓ should set Fee Excluded Address (7317ms)

1) should transfer tokens between accounts

2) "after each" hook: after test for "should transfer tokens between accounts"

6 passing (1m)

2 failing

1) Contract: Not

should transfer tokens between accounts:

AssertionError: expected '419999999910000000000000000000' to equal '419999999900000000000000000000'

+ expected - actual

-419999999910000000000000000000

+419999999900000000000000000000

Conclusion

Smart contracts contain medium severity issues! Liquidity pair contract's security is not checked due to out of scope. The further transfers and operations with the funds raise are not related to this particular contract.

Liquidity locking details are provided by the team:
https://unilocker.app/?certificate=0xdfae4b681ca9a200a65d443bfd67fd7073795cf8&network=bsc

Security score: 75.

TechRate note:
Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.