

Building the Futuristic Blockchain Ecosystem

SECURITY AUDIT REPORT

MiniBabyGrok



TOKEN OVERVIEW

Risk Findings

Severity	Found	
High	1	
Medium	0	
Low	1	
Informational	2	

Centralization Risks

Owner Privileges	Description
Can Owner Set Taxes >25%?	Not Detected
Owner needs to enable trading?	Yes, owner needs to enable trades
Can Owner Disable Trades ?	Not Detected
Can Owner Mint ?	Not Detected
Can Owner Blacklist ?	Not Detected
Can Owner set Max Wallet amount?	Not Detected
Can Owner Set Max TX amount?	Not Detected



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OVERVIEW

The Expelee team has performed a line-by-line manual analysis and automated review of the smart contract. The smart contract was analysed mainly for common smart contract vulnerabilities, exploits, and manipulation hacks. According to the smart contract audit:

Audit Result	Passed with high risk
KYC Verification	_
Audit Date	25 December 2023



CONTRACT DETAILS

Token Address: 0x13Fe0A26b30bE4E3B837AfbC8f840e1c41DC83c6

Name: MiniBabyGrok

Symbol: MiniBabyGrok

Decimals: 18

Network: BscScan

Token Type: BEP-20

Owner: 0xb8Fe529c07D22aD9831A726F7910ca6e7b4cC001

Deployer: 0xb8Fe529c07D22aD9831A726F7910ca6e7b4cC001

Checksum: 17032c616934aeb47e6039f76b20d2f5

Testnet:

https://testnet.bscscan.com/address/0x1c2a19822ca4fc4b3f78fabe55502e1d28176a5a#code



AUDIT METHODOLOGY

Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
- Back-doors
- Vulnerability
- Accuracy
- Readability

Tools

- DE
- Open Zeppelin
- Code Analyzer
- Solidity Code
- Compiler
- Hardhat



VULNERABILITY CHECKS

Design Logic	Passed
Compiler warnings	Passed
Private user data leaks	Passed
Timestamps dependence	Passed
Integer overflow and underflow	Passed
Race conditions & reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front Running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zepplin module	Passed



RISK CLASSIFICATION

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and acces control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

High Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Medium Risk

Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

Low Risk

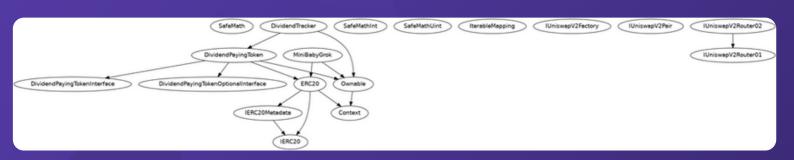
Issues on this level are minor details and warning that can remain unfixed.

Informational

Issues on this level are minor details and warning that can remain unfixed.



INHERITANCE TREES





STATIC ANALYSIS

```
| MODIO Detectors: | Transferred dotters: | Address: |
```



STATIC ANALYSIS

```
Function Initiaspy/Tail_FORMIN_SERMATOR() (Rinfabyloruk.valu95) is not in sixedCase
Function Initiaspy/Tail_FORMIN_TYPHOLOGY (Minfabyloruk.valu95) is not in sixedCase
Function Function Initiaspy/Tail_FORMIN_TYPHOLOGY (Minfabyloruk.valu95) is not in si
```



TESTNET VERSION

1- Approve (passed):

https://testnet.bscscan.com/tx/0xb65c67cc8510c76002e585350917d69c4a18feafb89980f22dcd50d33874b790

2- Increase Allowance (passed):

https://testnet.bscscan.com/tx/0x637912678fca1e864ea408ebf4da9e78ecab7c1b69b062ca6d940fc553907f87

3- Decrease Allowance (passed):

https://testnet.bscscan.com/tx/0x3bec39ce149f0a81a4c09191e8c35de58e49e50d56f9eaa558b926fa6c0007c0

4- Exclude From Dividends (passed):

https://testnet.bscscan.com/tx/0x3b73a36412254d15ad8e85a7b08b015766cd019c3f19eb758e21505d2df7edca

5- Change Marketing Wallet (passed):

https://testnet.bscscan.com/tx/0xe6d1ca678a125527d5b376bb4f9a646d5e9e462dde4 0c69dad8e332382db3e09



MANUAL REVIEW

Severity Criteria

Expelee assesses the severity of disclosed vulnerabilities according to methodology based on OWASP standarts.

Vulnerabilities are dividend into three primary risk categroies:

High

Medium

Low

High-level considerations for vulnerabilities span the following key areas when conducting assessments:

- Malicious input handling
- Escalation of privileges
- Arithmetic
- Gas use

Overall Risk Severity							
Impact	HIGH	Medium	High	Critical			
	MEDIUM	Low	Medium	High			
	LOW	Note	Low	Medium			
		LOW	MEDIUM	HIGH			
	Likelihood						



HIGH RISK FINDING

Centralization – Enabling Trades

Severity: High

function: EnableTrading

Status: Open

Overview:

The EnableTrading function permits only the contract owner to activate trading capabilities. Until this function is executed, no investors can buy, sell, or transfer their tokens. This places a high degree of control and centralization in the hands of the contract owner.

```
function enableTrading() external onlyOwner {
  require(!tradingEnabled, "Trading is already enabled");
  tradingEnabled = true;
  startTradingBlock = block.number;
}
```

Suggestion

To reduce centralization and potential manipulation, consider one of the following approaches:

1.Automatically enable trading after a specified condition, such as the completion of a presale, is met.

2.If manual activation is still desired, consider transferring the ownership of the contract to a trustworthy, third-party entity like a certified "PinkSale Safu" developer. This can give investors more confidence in the eventual activation of trading capabilities, mitigating concerns of potential bad-faith actions by the original owner.



LOW RISK FINDING

Centralization – Missing Events

Severity: Low

subject: Missing Events

Status: Open

Overview:

They serve as a mechanism for emitting and recording data onto the blockchain, making it transparent and easily accessible.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner{
require(newAmount > totalSupply() / 100_000, "SwapTokensAtAmount must
be greater than 0.001% of total supply");
  swapTokensAtAmount = newAmount;
}
function setLastProcessedIndex(uint256 index) external onlyOwner {
  dividendTracker.setLastProcessedIndex(index);
}
```



INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Optimization

subject: Remove unused code.

Status: Open

Overview:

Unused variables are allowed in Solidity, and they do. not pose a direct security issue. It is the best practice. though to avoid them

```
function _msgData() internal view virtual returns (bytes calldata) {
   return msg.data;
}
```

event TransferFeesUpdated(uint256 fee1, uint256 fee2);

event SendMarketing(uint256 bnbSend);

event UpdateUniswapV2Router(address indexed newAddress, address indexed oldAddress);

event UpdateDividendTracker(address indexed newAddress, address indexed oldAddress);



INFORMATIONAL & OPTIMIZATIONS

Optimization

Severity: Informational

subject: Remove Safe Math

Status: Open

Line: 26-225

Overview:

compiler version above 0.8.0 can control arithmetic overflow/underflow, It is recommended to remove the unwanted code to avoid high gas fees.



ABOUT EXPELEE

Expelee is a product-based aspirational Web3 start-up.
Coping up with numerous solutions for blockchain security and constructing a Web3 ecosystem from deal making platform to developer hosting open platform, while also developing our own commercial and sustainable blockchain.

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Building the Futuristic Blockchain Ecosystem



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