



# **RugFreeCoins Audit**



**Sonic Bytes Token**  
**Smart Contract Security Audit**  
**April 13, 2022**



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# Audit details



## **Audited project**

Sonic Bytes



## **Contract Address**

0x718C7e117028fFE8F401De738d7820cba4054D8C



## **Client contact**

Sonic Bytes Team



## **Blockchain**

Binance smart chain



## **Project website**

<https://sonicbytes.net>

# 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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# Background

Rugfreecoins was commissioned by the Sonic Bytes Team to perform an audit of the smart contract.

<https://bscscan.com/address/0x718C7e117028fFE8F401De738d7820cba4054D8C>

The focus of this audit is to verify that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, long-term sustainability, and as a guide to improving the security posture of the smart contract by remediating the issues that were identified.

# About the project

Sonic Bytes Token is a token built on the Binance Smart Chain that is with an innovative investment use case the main purpose of which is to seek out constant revenue sources, and heading towards building even greater Community, with safe tokenomics and play to earn game. Each transaction, purchase and sale incur 10% fee.

## Features

- The **Sonic Bytes reflections** will be distributed in tokens among every holder proportional to how many tokens each individual holds in values of **5% when buying and selling**.
- The additional component included under the sustainability section is a **liquidity fee of 3% when buying and selling**, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.
- **Sonic Bytes** has a burn strategy that benefits and rewards those who invest long-term. This feature slowly reduces supply making each Sonic Bytes more and more valuable. 2% fee goes to the burn wallet buying and selling.

# Roadmap

## **Jan - March 2022**

- Create our Advanced Smart Contract
- Test, Check, and Security Scan SONIC Bytes Contract
- Gnosis Safe Multisig Wallets for Charity & Developer wallet
- Deploy on Binance Smart Chain
- Verify Contract
- SSL Website and Social Media Sites
- Whitepaper
- Presale
- Pancakeswap
- Advertising / Marketing

## **April - June 2022**

- Play to Earn Tokens on Mobile App
- Play to Earn Tokens Online Game
- Advertisement System to integrate into Games.
- Mobile Wallet
- Certik Audit
- Gate.io Exchange, MEXC Exchange and more
- Coin Market Cap, Coin Gecko and more listings

## **June - August 2022**

- Continued Development of our Games
- Integrating of features and upgrades
- Upgrades of our Advertisement System
- Webpage updates
- Exchange Listings

# Tokenomics

## 10% fee when buying and buying

- 5% of trade goes to holders' pockets in tokens.
- 3% of trade goes to the liquidity pool.
- 2% of trade goes to the burn wallet.



# Target market and the concept

## Target market

- Anyone who's interested in the Crypto space with long-term investment plans.
- Anyone who's ready to earn a passive income by holding tokens.
- Anyone who's interested in trading tokens.
- Anyone who's interested in playing and earning tokens through P2E games.
- Anyone who's interested in taking part with the future plans of the Sonic Bytes.
- Anyone who's interested in making financial transactions with any other party using Sonic Bytes as the currency.

## Core concept

### The Sonic Bytes reward system

5% of each transaction when buying and selling is split amongst all holders. Holders will be eligible to receive tokens in each transaction and rewards are proportional to how many tokens each individual holds.

### Sustainable mechanism

**The liquidity fee of 3% when buying and selling**, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

Sonic Bytes has the burn strategy that benefits and rewards those who invest long-term. This feature slowly reduces supply making Sonic Bytes price more and more valuable.

# Potential to grow with score points

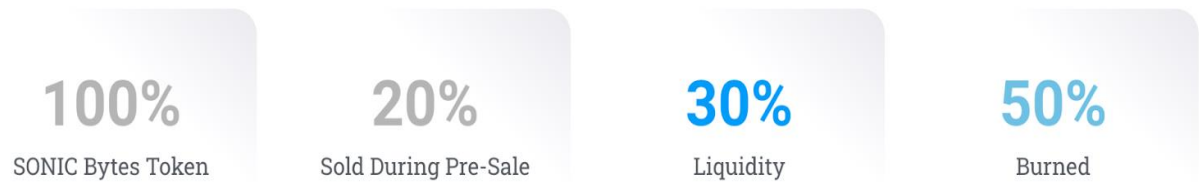
|              |                          |                 |
|--------------|--------------------------|-----------------|
| 1.           | Project efficiency       | 8/10            |
| 2.           | Project uniqueness       | 8/10            |
| 3            | Information quality      | 9/10            |
| 4            | Service quality          | 8/10            |
| 5            | System quality           | 8/10            |
| 6            | Impact on the community  | 9/10            |
| 7            | Impact on the business   | 7/10            |
| 8            | Preparing for the future | 8/10            |
| Total Points |                          | <b>8.125/10</b> |

# Contract details

## Token contract details for 13<sup>th</sup> April 2022

|                                  |  |
|----------------------------------|--|
| Contract name                    | SonicBytes                                 |
| Contract address                 | 0x718C7e117028fFE8F401De738d7820cba4054D8C |
| Token supply                     | 1,000,000,000,000,000                      |
| Token ticker                     | BYTES                                      |
| Decimals                         | 18   |
| Token holders                    | 1  |
| Transaction count                | 1  |
| Contract deployer address        | 0xB69dbB7f0bb3a95EfD21d056F247f81E4Ef0758B |
| Contract's current owner address | 0xb69dbb7f0bb3a95efd21d056f247f81e4ef0758b |

## Token Distribution



# Contract code function details






| No | Category                              | Item   | Result    |
|----|---------------------------------------|--|-----------|
| 1  | Coding conventions                    | BRC20 Token standards                            | pass      |
|    |                                       | compile errors                                   | pass      |
|    |                                       | Compiler version security                        | pass      |
|    |                                       | visibility specifiers                            | pass      |
|    |                                       | Gas consumption                                  | pass      |
|    |                                       | SafeMath features                                | pass      |
|    |                                       | Fallback usage                                   | pass      |
|    |                                       | tx.origin usage                                  | pass      |
|    |                                       | deprecated items                                 | pass      |
|    |                                       | Redundant code                                   | pass      |
|    |                                       | Overriding variables                             | pass      |
| 2  | Function call audit                   | Authorization of function call                   | pass      |
|    |                                       | Low level function (call/delegate call) security | pass      |
|    |                                       | Returned value security                          | pass      |
|    |                                       | Selfdestruct function security                   | pass      |
| 3  | Business security                     | Access control of owners                         | pass      |
|    |                                       | Business logics                                  | pass      |
|    |                                       | Business implementations                         | Low issue |
| 4  | Integer overflow/underflow            |  | pass      |
| 5  | Reentrancy                            |  | pass      |
| 6  | Exceptional reachable state           |  | pass      |
| 7  | Transaction ordering dependence       |  | pass      |
| 8  | Block properties dependence           |  | pass      |
| 9  | Pseudo random number generator (PRNG) |  | pass      |
| 10 | DoS (Denial of Service)               |  | pass      |
| 11 | Token vesting implementation          |  | pass      |














































|           |                       |  |             |
|-----------|-----------------------|--|-------------|
| <b>12</b> | <b>Fake deposit</b>   |  | <b>pass</b> |
| <b>13</b> | <b>Event security</b> |  | <b>pass</b> |




































# Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.







| Contract            | Type               | Bases      |   |           |
|---------------------|--------------------|------------|---|-----------|
| L                   | Function Name      | Visibility | Mutability  | Modifiers |
|                     |                    |            |   |           |
| <b>IPinkAntiBot</b> | <b>Interface</b>   |            |   |           |
| L                   | setTokenOwner      | External ! |    | NO !      |
| L                   | onPreTransferCheck | External ! |    | NO !      |
|                     |                    |            |   |           |
| <b>IERC20</b>       | <b>Interface</b>   |            |   |           |
| L                   | totalSupply        | External ! |   | NO !      |
| L                   | decimals           | External ! |   | NO !      |
| L                   | symbol             | External ! |   | NO !      |
| L                   | name               | External ! |   | NO !      |
| L                   | getOwner           | External ! |   | NO !      |
| L                   | balanceOf          | External ! |   | NO !      |
| L                   | transfer           | External ! |  | NO !      |
| L                   | allowance          | External ! |   | NO !      |
| L                   | approve            | External ! |  | NO !      |
| L                   | transferFrom       | External ! |  | NO !      |
|                     |                    |            |   |           |














| SafeMath       | Library        |  |   |  |
|----------------|----------------|--|---|--|
| L              | tryAdd         | Internal    |   |  |
| L              | trySub         | Internal    |   |  |
| L              | tryMul         | Internal    |   |  |
| L              | tryDiv         | Internal    |   |  |
| L              | tryMod         | Internal    |   |  |
| L              | add            | Internal    |   |  |
| L              | sub            | Internal    |   |  |
| L              | mul            | Internal    |   |  |
| L              | div            | Internal    |   |  |
| L              | mod            | Internal  |   |  |
| L              | sub            | Internal  |   |  |
| L              | div            | Internal  |   |  |
| L              | mod            | Internal  |   |  |
|                |                |  |   |  |
| Context        | Implementation |  |   |  |
| L              | _msgSender     | Internal  |   |  |
| L              | _msgData       | Internal  |   |  |
|                |                |  |   |  |
| Enumerable Set | Library        |  |   |  |
| L              | _add           | Private   |  |  |












|                |                |  |   |  |
|----------------|----------------|--|---|--|
| L              | _remove        | Private     |    |  |
| L              | _contains      | Private     |   |  |
| L              | _length        | Private     |   |  |
| L              | _at            | Private     |   |  |
| L              | add            | Internal    |    |  |
| L              | remove         | Internal    |    |  |
| L              | contains       | Internal    |   |  |
| L              | length         | Internal    |   |  |
| L              | at             | Internal    |   |  |
| L              | add            | Internal   |   |  |
| L              | remove         | Internal  |  |  |
| L              | contains       | Internal  |   |  |
| L              | length         | Internal  |   |  |
| L              | at             | Internal  |   |  |
| L              | add            | Internal  |  |  |
| L              | remove         | Internal  |  |  |
| L              | contains       | Internal  |   |  |
| L              | length         | Internal  |   |  |
| L              | at             | Internal  |   |  |
|                |                |  |   |  |
| <b>Address</b> | <b>Library</b> |  |   |  |











|                               |                        |  |   |  |
|-------------------------------|------------------------|--|---|--|
| L                             | isContract             | Internal    |   |  |
| L                             | sendValue              | Internal    |    |  |
| L                             | functionCall           | Internal    |    |  |
| L                             | functionCall           | Internal    |    |  |
| L                             | functionCallWithValue  | Internal    |    |  |
| L                             | functionCallWithValue  | Internal    |    |  |
| L                             | _functionCallWithValue | Private     |    |  |
|                               |                        |  |   |  |
| <b>Owable</b>                 | <b>Implementation</b>  | <b>Context</b>   |   |  |
| L                             |                        | Public      |    | NO    |
| L                             | owner                  | Public    |   | NO  |
| L                             | renounceOwnership      | Public    |  | onlyOwner  |
| L                             | transferOwnership      | Public    |  | onlyOwner  |
|                               |                        |  |   |  |
| <b>IUniswapV2<br/>Factory</b> | <b>Interface</b>       |  |   |  |
| L                             | feeTo                  | External  |   | NO  |
| L                             | feeToSetter            | External  |   | NO  |
| L                             | getPair                | External  |   | NO  |
| L                             | allPairs               | External  |   | NO  |
| L                             | allPairsLength         | External  |   | NO  |
| L                             | createPair             | External  |  | NO  |
































|                            |                   |            |   |      |
|----------------------------|-------------------|------------|---|------|
| L                          | setFeeTo          | External ! |    | NO ! |
| L                          | setFeeToSetter    | External ! |    | NO ! |
|                            |                   |            |   |      |
| <b>IUniswapV2<br/>Pair</b> | <b>Interface</b>  |            |   |      |
| L                          | name              | External ! |   | NO ! |
| L                          | symbol            | External ! |   | NO ! |
| L                          | decimals          | External ! |   | NO ! |
| L                          | totalSupply       | External ! |   | NO ! |
| L                          | balanceOf         | External ! |   | NO ! |
| L                          | allowance         | External ! |   | NO ! |
| L                          | approve           | External ! |  | NO ! |
| L                          | transfer          | External ! |  | NO ! |
| L                          | transferFrom      | External ! |  | NO ! |
| L                          | DOMAIN_SEPARATOR  | External ! |   | NO ! |
| L                          | PERMIT_TYPEHASH   | External ! |   | NO ! |
| L                          | nonces            | External ! |   | NO ! |
| L                          | permit            | External ! |  | NO ! |
| L                          | MINIMUM_LIQUIDITY | External ! |   | NO ! |
| L                          | factory           | External ! |   | NO ! |
| L                          | token0            | External ! |   | NO ! |
| L                          | token1            | External ! |   | NO ! |















|                                |                              |            |   |      |
|--------------------------------|------------------------------|------------|---|------|
| L                              | getReserves                  | External ! |   | NO ! |
| L                              | price0CumulativeLast         | External ! |   | NO ! |
| L                              | price1CumulativeLast         | External ! |   | NO ! |
| L                              | kLast                        | External ! |   | NO ! |
| L                              | mint                         | External ! |    | NO ! |
| L                              | burn                         | External ! |    | NO ! |
| L                              | swap                         | External ! |    | NO ! |
| L                              | skim                         | External ! |    | NO ! |
| L                              | sync                         | External ! |    | NO ! |
| L                              | initialize                   | External ! |    | NO ! |
|                                |                              |            |   |      |
| <b>IUniswapV2<br/>Router01</b> | <b>Interface</b>             |            |   |      |
| L                              | factory                      | External ! |   | NO ! |
| L                              | WETH                         | External ! |   | NO ! |
| L                              | addLiquidity                 | External ! |  | NO ! |
| L                              | addLiquidityETH              | External ! |  | NO ! |
| L                              | removeLiquidity              | External ! |  | NO ! |
| L                              | removeLiquidityETH           | External ! |  | NO ! |
| L                              | removeLiquidityWithPermit    | External ! |  | NO ! |
| L                              | removeLiquidityETHWithPermit | External ! |  | NO ! |
| L                              | swapExactTokensForTokens     | External ! |  | NO ! |

|                            |   |                                 |   |      |
|----------------------------|---|---------------------------------|---|------|
| L                          | swapTokensForExactTokens                                  | External !                      |    | NO ! |
| L                          | swapExactETHForTokens                                     | External !                      |    | NO ! |
| L                          | swapTokensForExactETH                                     | External !                      |    | NO ! |
| L                          | swapExactTokensForETH                                     | External !                      |    | NO ! |
| L                          | swapETHForExactTokens                                     | External !                      |    | NO ! |
| L                          | quote   | External !                      |   | NO ! |
| L                          | getAmountOut  | External !                      |   | NO ! |
| L                          | getAmountIn   | External !                      |   | NO ! |
| L                          | getAmountsOut   | External !                      |   | NO ! |
| L                          | getAmountsIn  | External !                      |   | NO ! |
|                            |   |                                 |   |      |
| <b>IUniswapV2 Router02</b> | <b>Interface</b>  | <b>IUniswapV2Router01</b>       |   |      |
| L                          | removeLiquidityETHSupportingFeeOnTransferTokens           | External !                      |  | NO ! |
| L                          | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External !                      |  | NO ! |
| L                          | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External !                      |  | NO ! |
| L                          | swapExactETHForTokensSupportingFeeOnTransferTokens        | External !                      |  | NO ! |
| L                          | swapExactTokensForETHSupportingFeeOnTransferTokens        | External !                      |  | NO ! |
|                            |   |                                 |   |      |
| <b>Sonic_Bytes</b>         | <b>Implementation</b>                                     | <b>Context, IERC20, Ownable</b> |   |      |
| L                          |   | Public !                        |  | NO ! |



|   |                      |            |   |           |
|---|----------------------|------------|---|-----------|
| L | setEnabledAntiBot    | External ! |    | onlyOwner |
| L | symbol               | External ! |   | NO !      |
| L | name                 | External ! |   | NO !      |
| L | decimals             | External ! |   | NO !      |
| L | totalSupply          | External ! |   | NO !      |
| L | getOwner             | External ! |   | NO !      |
| L | balanceOf            | Public !   |   | NO !      |
| L | transfer             | Public !   |    | NO !      |
| L | allowance            | Public !   |   | NO !      |
| L | approve              | Public !   |   | NO !      |
| L | transferFrom         | Public !   |  | NO !      |
| L | increaseAllowance    | Public !   |  | NO !      |
| L | decreaseAllowance    | Public !   |  | NO !      |
| L | isExcludedFromReward | External ! |   | NO !      |
| L | totalFees            | External ! |   | NO !      |
| L | setNewTaxes          | External ! |  | onlyOwner |
| L | deliver              | External ! |  | NO !      |
| L | reflectionFromToken  | External ! |   | NO !      |
| L | tokenFromReflection  | Public !   |   | NO !      |
| L | setRouterAddress     | External ! |  | onlyOwner |
| L | excludeFromReward    | External ! |  | onlyOwner |

|   |                                  |   |   |             |
|---|----------------------------------|---|---|-------------|
| L | includeInReward                  | External !  |    | onlyOwner   |
| L | _transferBothExcluded            | Private    |    |             |
| L | excludeFromFee                   | External !  |    | onlyOwner   |
| L | includeInFee                     | External !  |    | onlyOwner   |
| L | setNumTokensSellToAddToLiquidity | External !  |    | onlyOwner   |
| L | setSwapAndLiquifyEnabled         | External !  |    | onlyOwner   |
| L |                                  | External !  |    | NO !        |
| L | _reflectFee                      | Private    |    |             |
| L | _getValues                       | Private    |   |             |
| L | _getTValues                      | Private   |   |             |
| L | _getRValues                      | Private  |   |             |
| L | _getRate                         | Private  |   |             |
| L | _getCurrentSupply                | Private  |   |             |
| L | _takeLiquidity                   | Private  |  |             |
| L | _takeBurn                        | Private  |  |             |
| L | removeAllFee                     | Private  |  |             |
| L | restoreAllFee                    | Private  |  |             |
| L | isExcludedFromFee                | External !  |   | NO !        |
| L | _approve                         | Private  |  |             |
| L | _transfer                        | Private  |  |             |
| L | swapAndLiquify                   | Private  |  | lockTheSwap |

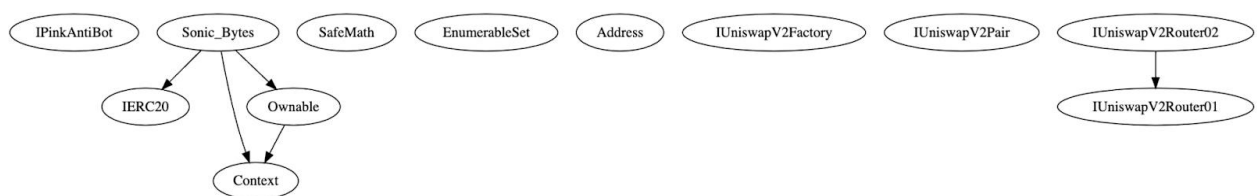


|   |                       |  |   |           |
|---|-----------------------|--|---|-----------|
| L | swapTokensForEth      | Private   |  |           |
| L | addLiquidity          | Private   |  |           |
| L | _tokenTransfer        | Private   |  |           |
| L | enableDisableBot      | External  |  | onlyOwner |
| L | _transferStandard     | Private   |  |           |
| L | _transferToExcluded   | Private   |  |           |
| L | _transferFromExcluded | Private   |  |           |

## Legend

| Symbol  | Meaning                   |
|---|---------------------------|
|  | Function can modify state |
|  | Function is payable       |

## Inheritance Hierarchy



# Security issue checking status

- **High severity issues**

No High severity issues found.

- **Medium severity issues**

No medium severity issues found

- **Low severity issues**

- ❖ Two different functions available for the same purpose, can remove one function and keep only one.

```
ftrace | funcSig
function setEnableAntiBot(bool _enable↑) external onlyOwner {
    antiBotEnabled = _enable↑;
}
```

```
ftrace | funcSig
function enableDisableBot(bool _value↑) external onlyOwner {
    antiBotEnabled = _value↑;
}
```

- **Informational**

- ❖ After swapping and adding liquidity if the contract has remaining BNB of more than 0.01, that amount will transfer to the dev wallet.

- **Centralization risk**

No Centralization issues found

# Owner privileges

- ❖ The owner can enable/disable pink anti bot

```
ftrace | funcSig
function setEnableAntiBot(bool _enable↑) external onlyOwner {
    antiBotEnabled = _enable↑;
}
```

- ❖ The owner can change all fees maximum up to 15%

```
ftrace | funcSig
function setNewTaxes(
    uint256 _newtaxfee↑,
    uint256 _newburnFee↑,
    uint256 _newlpfee↑
) external onlyOwner {
    uint256 subtotal = _newtaxfee↑.add(_newburnFee↑).add(_newlpfee↑);
    require(subtotal <= MAX_TAX_FEE, "Tax fee exceeded from 15%");

    _previousTaxFee = _taxFee;
    _taxFee = _newtaxfee↑;

    _previousBurnFee = _burnFee;
    _burnFee = _newburnFee↑;

    _previousLiquidityFee = _liquidityFee;
    _liquidityFee = _newlpfee↑;
}
```

- ❖ The owner can change the router address

```
ftrace | funcSig
function setRouterAddress(address newRouterAddress↑) external onlyOwner {
    require(
        newRouterAddress↑ != address(uniswapV2Router),
        "This router is already used."
    );
    uniswapV2Router = IUniswapV2Router02(newRouterAddress↑);
    uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory()).getPair(
        address(this),
        uniswapV2Router.WETH()
    );
    if (uniswapV2Pair == address(0)) {
        uniswapV2Pair = IUniswapV2Factory(uniswapV2Router.factory())
            .createPair(address(this), uniswapV2Router.WETH());
    }
}
```

- ❖ The owner can include/exclude wallets from rewards

```
ftrace | funcSig
function excludeFromReward(address account↑) external onlyOwner {
    require(
        account↑ != address(uniswapV2Router),
        "We can not exclude uniswap router."
    );
    require(!_isExcluded[account↑], "Account was already excluded");
    if (_rOwned[account↑] > 0) {
        _tOwned[account↑] = tokenFromReflection(_rOwned[account↑]);
    }
    _isExcluded[account↑] = true;
    _excluded.add(account↑);
    emit ExcludedFromReward(account↑);
}

ftrace | funcSig
function includeInReward(address account↑) external onlyOwner {
    require(!_isExcluded[account↑], "Account was already included");
    if (_excluded.contains(account↑)) {
        _excluded.remove(account↑);
        _tOwned[account↑] = 0;
        _isExcluded[account↑] = false;
    }
    emit IncludedToReward(account↑);
}
```

- ❖ The owner can include/exclude wallets from fees

```
ftrace | funcSig
function excludeFromFee(address account↑) external onlyOwner {
    _isExcludedFromFee[account↑] = true;
    emit ExcludedFromFee(account↑);
}

ftrace | funcSig
function includeInFee(address account↑) external onlyOwner {
    _isExcludedFromFee[account↑] = false;
    emit IncludedToFee(account↑);
}
```

- ❖ The owner can change max token amount sell to add liquidity

```
ftrace | funcSig
function setNumTokensSellToAddToLiquidity(uint256 amount↑)
    external
    onlyOwner
{
    numTokensSellToAddToLiquidity = amount↑;
    emit UpdateNumtokensSellToAddToLiquidity(amount↑);
}
```

- ❖ The owner can enable/disable swap

```
ftrace | funcSig
function setSwapAndLiquifyEnabled(bool _enabled↑) external onlyOwner {
    swapAndLiquifyEnabled = _enabled↑;
    emit SwapAndLiquifyEnabledUpdated(_enabled↑);
}
```



# Audit conclusion

RugFreeCoins team has performed in-depth testings, line by line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status: **PASSED**

Number of risk issues: **1**

Solidity code functional issue level: **LOW SEVERITY**

Number of owner privileges: **7**

Centralization risk correlated to the active owner: **LOW**

Smart contract active ownership: **YES**