



**RUGFREE**COINS



# FLORK INU Token

RugfreeCoins Verified on September 27th, 2023

# Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✗ The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.
- ✓ The owner can't change fees.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit
- ✓ The owner can't claim the contract's balance of its own token.

## ! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading already enabled");  
    tradingEnabled = true;  
    swapEnabled = true;  
}
```

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## Audit details



**Audited project**  
FLORK INU Token



**Contract Address**  
0xc5742167efcb51049717fb62056f7978eef65fb4



**Client contact**  
FLORK INU Token Team



**Blockchain**  
Binance Smart chain



**Project website**  
<http://www.florkinu.com>

# 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

**RugfreeCoins** was commissioned by the **FLORK INU Token Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0xc5742167efcb51049717fb62056f7978eef65fb4>

This audit focuses on verifying 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, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

# Tokenomics

## ▲ 10% tax when buying & selling

9% of trade goes to the marketing wallet in BNB

1% of trade goes to the burn wallet












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# Target market and the concept

- ▶ 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 taking part in the FLORK INU token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of FLORK INU Token.
- ▶ Anyone who's interested in making financial transactions with any other party using FLORK INU Token as the currency.



## Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	7 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	9 / 10
 <b>Total Score</b>	<b>8.2 / 10</b>

# Contract details

Token contract details for 27th of September 2023

Contract name	FLORK INU
Contract address	0xc5742167efCb51049717Fb62056F7978eEF65fb4
Token supply	1,000,000,000,000,000
Token ticker	FLORK
Decimals	18
Token holders	1
Transaction count	1
Contract deployer address	0xd05BcB7becE83d37048c95A68ef42c646Bd5969A
Contract's current owner address	0xd05BcB7becE83d37048c95A68ef42c646Bd5969A
Marketing wallet	0x468f5622C3E138D96af7b186617F0377e21675e0

# Contract code function details














Nº	Category	Item	Result
1	Coding conventions	ERC20 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 ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	HIGH ▾
		Business logics	PASS ▾
4	Integer overflow/underflow	Business implementation	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 ▾
12	Fake deposit		PASS ▾
13	Event security		PASS ▾

# 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>IUniswapV2 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 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 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>IUniswapV2 Router01</b>		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
<b>IERC20</b>	<b>Interface</b>			
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !		NO !
L	allowance	External !		NO !
L	approve	External !		NO !
L	transferFrom	External !		NO !

IERC20 Metadata	Interface	IERC20		
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
Address	Library			
L	sendValue	Internal 🔒	🛑	
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		
Ownable	Implementation	Context		
L		Public !	🛑	NO !
L	owner	Public !		NO !
L	renounceOwnership	Public !	🛑	onlyOwner
L	transferOwnership	Public !	🛑	onlyOwner
ERC20	Implementation	Context, IERC20, IERC20Meta data		
L		Public !	🛑	NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !	🛑	NO !
L	allowance	Public !		NO !

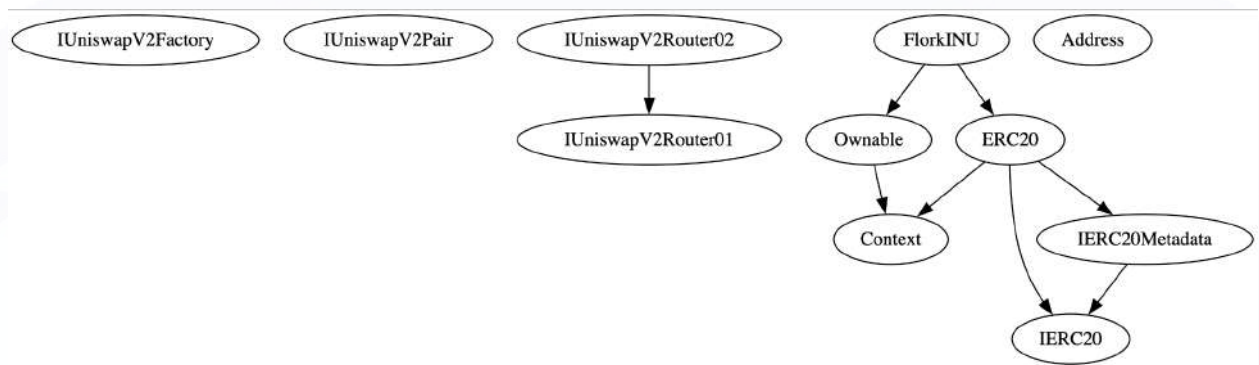
L	approve	Public !		NO !
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !
L	decreaseAllowance	Public !		NO !
L	_transfer	Internal 		
L	_mint	Internal 		
L	_burn	Internal 		
L	_approve	Internal 		
L	_beforeTokenTransfer	Internal 		
L	_afterTokenTransfer	Internal 		
<b>FlorkINU</b>	<b>Implementation</b>	<b>ERC20, Ownable</b>		
L		Public !		ERC20
L		External !		NO !
L	claimStuckTokens	External !		onlyOwner
L	excludeFromFees	External !		onlyOwner
L	isExcludedFromFees	Public !		NO !
L	changeMarketingWallet	External !		onlyOwner
L	enableTrading	External !		onlyOwner
L	_transfer	Internal 		
L	setSwapEnabled	External !		onlyOwner
L	setSwapTokensAtAmount	External !		onlyOwner
L	swapAndSendMarketing	Private 		

### Legend

Symbol	Meaning
	Function can modify state
	Function is payable




# Inheritance Hierarchy



# Security issue checking status

## ❖ High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.



```
function enableTrading() external onlyOwner {  
    require(!tradingEnabled, "Trading already enabled");  
    tradingEnabled = true;  
    swapEnabled = true;  
}
```

## ❖ Medium severity issues

No medium severity issues found

## ❖ Low severity issues

No low-severity issues found

# Owner privileges

- ❖ Owner can claim any bep20 tokens ( can not claim native tokens) and bnb from the contract

```
function claimStuckTokens(address token) external onlyOwner {
    require(
        token != address(this),
        "Owner cannot claim contract's balance of its own tokens"
    );
    if (token == address(0x0)) {
        payable(msg.sender).sendValue(address(this).balance);
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

- ❖ Owner can include/exclude wallets from fees

```
function excludeFromFees(
    address account,
    bool excluded
) external onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "Account is already the value of 'excluded'"
    );
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}
```

- ❖ Owner can change the marketing wallet address

```
function changeMarketingWallet(
  address _marketingWallet
) external onlyOwner {
  require(
    _marketingWallet != marketingWallet,
    "Marketing wallet is already that address"
  );
  require(
    _marketingWallet != address(0),
    "Marketing wallet cannot be the zero address"
  );
  marketingWallet = _marketingWallet;

  emit MarketingWalletChanged(marketingWallet);
}
```

- ❖ Owner can enable trading,once enabled can not disable again

```
function enableTrading() external onlyOwner {
  require(!tradingEnabled, "Trading already enabled");
  tradingEnabled = true;
  swapEnabled = true;
}
```

❖ Owner can enable/disable swapping

```
function setSwapEnabled(bool _enabled) external onlyOwner {  
    require(swapEnabled != _enabled, "swapEnabled already at this state");  
    swapEnabled = _enabled;  
}
```

❖ Owner can change swap point minimum up-to 0.001%

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner {  
    require(  
        newAmount > totalSupply() / 1_000_000,  
        "SwapTokensAtAmount must be greater than 0.001% of total supply"  
    );  
    swapTokensAtAmount = newAmount;  
  
    emit SwapTokensAtAmountUpdated(swapTokensAtAmount);  
}
```

## Audit conclusion

RugFreeCoins team has performed in-depth testing, 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:	PASS ▾
Number of risk issues:	1
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	6
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾