



RugFreeCoins Audit



PepeMad Token Smart Contract Security Audit

May 10th ,2023

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Audit details



Audited project

PepeMad Token



Contract Address

0x1A6067cCaC2c1221dCA076F971B30BA5EC0E8198



Client contact

PepeMad Team



Blockchain

Binance smart chain



Project website

<https://pepemad.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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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.
- ✓ The owner can't set fees over 25%.
- ✓ 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.

Background

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

<https://bscscan.com/address/0x1A6067cCaC2c1221dCA076F971B30BA5EC0E8198>

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

Roadmap

Phase 01

- Creation of a Pepemad ideology
- Website launch
- Whitepaper creation
- Consultation with advisors
- Army of Pepemad
- KYC & Audit
- Community Building
- Huge Marketing Campaign

Phase 02

- Pepemad DEX Launch
- CoinGecko and CoinMarketCap Campaign
- NFT Development
- Partnerships with influencers
- Billboard Advertisement in front of the SpaceX office
- Merchandising for community
- 5000 holders
- Tier 2 CEX Listings
- Working on P2E game
- 10 Million MarketCap

Phase 03

- NFT Release
- Available SWAP
- Pepemad Academy
- Pepemad Tools
- Ads campaign with Crypto Ambassadors
- P2E game release
- 200,000 holders
- 50 Million MarketCap
- Kick Elon Musk's ass
- Pepemad Corps Launching
- Meme Takeover

Tokenomics

0% when buying & selling

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 ready to staking and receive rewards.
- Anyone who's interested in taking part in the PepeMad ecosystem.
- Anyone who's interested in taking part in the future plans of PepeMad Token.
- Anyone who's interested in making financial transactions with any other party using PepeMad Token as the currency.

Potential to grow with score points

1.	Project efficiency	9/10
2.	Project uniqueness	8/10
3	Information quality	9/10
4	Service quality	9/10
5	System quality	9/10
6	Impact on the community	9/10
7	Impact on the business	9/10
8	Preparing for the future	8/10
9	Smart contract security	10/10
10	Smart contract functionality assessment	10/10
Total Points		9/10

Contract details

Token contract details for 10th of May 2023

Contract name	PepeMad
Contract address	0x1A6067cCaC2c1221dCA076F971B30BA5EC0E8198
Token supply	1,000,000,000,000
Token ticker	Pemad
Decimals	9
Token holders	1
Transaction count	1
Contract deployer address	0x29d36dd87963975dc90856bcbd5eb2e0dfc834b0
Contract's current owner address	0x29d36dd87963975dc90856bcbd5eb2e0dfc834b0







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	
		Business logics	pass
		Business implementations	pass
4	Integer overflow/underflow		pass
5	Reentrancy		pass
6	Exceptional reachable states		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
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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
PepeMad	Implementation	IERC20, Ownable		
L		Public !		NO !
L		External !		NO !
L	totalSupply	External !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	balanceOf	Public !		NO !
L	allowance	External !		NO !
L	approve	Public !		NO !
L	approveMax	External !		NO !
L	transfer	External !		NO !
L	transferFrom	External !		NO !

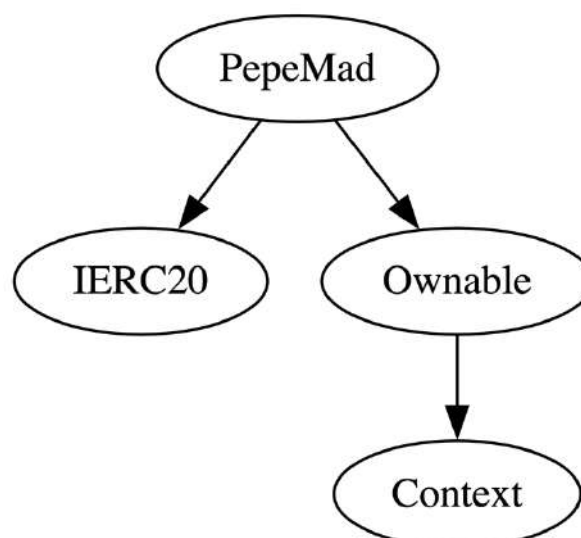
L	_transferFrom	Internal 		
L	enableTrading	External !		onlyOwner
L	setAuthorizedWallets	External !		onlyOwner
L	rescueBNB	External !		onlyOwner
L	withdrawBep20Tokens	External !		onlyOwner
Ownable	Implementation	Context		
L		Public !		NO !
L	owner	Public !		NO !
L	_checkOwner	Internal 		
L	renounceOwnership	Public !		onlyOwner
L	transferOwnership	Public !		onlyOwner
L	_transferOwnership	Internal 		
IERC20	Interface			
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	transfer	External !		NO !

L	allowance	External !		NO !
L	approve	External !	●	NO !
L	transferFrom	External !	●	NO !
Context	Implementation			
L	_msgSender	Internal 🔒		
L	_msgData	Internal 🔒		

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**

No low-severity issues found

❖ **Centralization Risk**

No centralization issues found

Owner privileges

- ❖ The owner can enable trading once enabled it can not be disabled again.

```
ftrace | funcSig
function enableTrading() external onlyOwner {
    require(!isTradeEnabled, "Trading already enabled");
    isTradeEnabled = true;
}
```

- ❖ The owner can add/remove authorized wallets (Authorized wallets can do transactions before enable trading)

```
ftrace | funcSig
function setAuthorizedWallets(
    address _wallet↑,
    bool _status↑
) external onlyOwner {
    isAuthorized[_wallet↑] = _status↑;
}
```

- ❖ The owner can get the contract BNB balance to the owner's wallet.

```
ftrace | funcSig
function rescueBNB() external onlyOwner {
    uint256 balance = address(this).balance;
    require(balance > 0, "No enough BNB to transfer");

    payable(msg.sender).transfer(balance);
}
```

- ❖ The owner can withdraw any BEP20 tokens from the contract (can not withdraw native tokens)

```
ftrace | funcSig
function withdrawBep20Tokens(
    address _tokenAddress↑,
    uint256 _amount↑
) external onlyOwner {
    require(
        _tokenAddress↑ != address(this),
        "Can not withdraw Native tokens"
    );

    require(
        IERC20(_tokenAddress↑).balanceOf(address(this)) >= _amount↑,
        "No enough token balance"
    );

    IERC20(_tokenAddress↑).transfer(msg.sender, _amount↑);
}
```

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: **PASS**

Number of risk issues: **0**

Solidity code functional issue level: **PASS**

Number of owner privileges: **4**

Centralization risk correlated to the active owner: **NONE**

Smart contract active ownership: **NO**