

RugFreeCoins Audit



Tres Leches Cake Audit
Smart Contract Security Audit
November 17, 2021

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Audit details



Audited project

Tres Leches Cake Token



Contract Address

0x3e83C58B1C01C4F8c1ab1c9f4df969601e2e7EE6



Client contact

Tres Leches Cake Team



Blockchain

Binance smart chain



Project website

https://tresleches.finance/

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 Tres Leches Cake to perform an audit of the smart contract.

https://bscscan.com/token/0x3e83C58B1C01C4F8c1ab1c9f4df969601e2e7EE6

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 improve the security posture of the smart contract by remediating the issues that were identified.

About the project

Tres Leches Cake is a token built on the Binance Smart Chain. Each transaction, purchase and sale incur a 12% fee. The main goal of this token is to create a community effort to assist the feature students in having a fantastic education via scholarship donations. The token is driven by the community, and the options are endless.

Features

- ❖ The automatic Cake rewards will be distributed among every holder proportional to how many tokens each individual holds in values of 5% when buying and selling..
- ❖ The sustainability fee of 3% when buying and selling for marketing and dev is what allows Tres Leches Cake Token to hold the aforementioned promise. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Tres Leches Cake Token will have enough funds to promote the coin and spend for future development without selling tokens as the traditional way.
- The additional component included under the sustainability section is a liquidity fee of 2%, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity. This is a key element for decentralized exchanges like Pancakeswap!
- ❖ The scholarship fee of 2% when buying and selling for charity is what allows Tres Leches Cake to allocate funds for the good cause. This will empower the Tres Leches Cake community in the long run, and motivate more people to join in

Tokenomics

12% fee when buying and selling

- ❖ 5% of trade goes to holders' pockets in Cake tokens.
- 3% of trade goes to Marketing & Dev wallets.
- 2% of every trade goes to the liquidity pool.
- 2% of trade goes to the scholarship wallet in tokens.

Roadmap





Target market and the concept

Target market

- ❖ Anyone who's interested in Crypto space with long term investment plans.
- Anyone who's ready to earn a passive income in Tres Leches Cake tokens by holding tokens.
- Anyone who's interested in trading tokens.
- ❖ Anyone who's interested in taking part with decision making of the project.
- ❖ Anyone who's interested in collecting NFTs or trading NFTs.
- Anyone who's interested in taking part with the future plans of the Tres Leches Cake token.
- ❖ Anyone who's interested in supporting a good cause. (Scholarship feature)
- Anyone who's interested in making financial transactions with any other party using Tres Leches Cake token as the currency.

Core concept

The token reward system

5% of each transaction when selling gets sent amongst all holders in cake rewards. The holders will be eligible to receive CAKE,in every one hour, and rewards are proportional to how many tokens each individual holds.

Sustainable mechanism

The sustainability fee of 3% when buying and selling for marketing and Dev is what allows Tres Leches Cake Token to promote the token and use funds to further development of the platform. Tokens will be swapped into BNB and will be sent to a marketing wallet per transaction. This way, Tres Leches Cake Token will have access to the funds without selling tokens as the traditional way, which will enable them to consume funds without hurting the project.

The liquidity fee of 2% when buying and selling, which is a redistribution mechanism that ensures the trading pool always has sufficient liquidity.

Good cause

2% Scholarship fee per transaction will be sent in tokens to a separate wallet.

SCHOLARSHIP REQUIREMENTS

- 1. GPA 3.0 or Higher, if this is different in your country, feel free to explain why and what is your current academic achievement.
- Proof that you deserve to be the Winner of the scholarship; show the community why and how you plan to change the feature by having a college education.
- 3. Current Sophomore or Junior.
- 4. A 650-word essay, the Topic will be chosen by the community and announced when the application process is ready to start. Check Roadmap Section.
- 5. Must be a Tres Leches Token Holder and always hold at least 1,000 tokens.
- 6. Must show proof of enrollment into a higher education institution.
- 7. Candidates must be willing to join a telegram channel to answer three questions from the community leads during the nomination process.

We will open the nomination process on the website by submitting a form that will be made available. The community will choose Top 3 candidates to go into a final Interview process. During this interview, the community leads will ask the candidates three main questions. The community then will vote to choose their community winner and award the scholarship.

WINNER ANNOUNCEMENT



The Winner will be announced on our social media channels. After the Winner has been chosen, the Winner will have 30 days (about four and a half weeks) to present the evidence required for the award.

The award will be paid in BNB to the Winner, and the transaction will be made available. Why not an official check? This is the cryptocurrency world. We want to encourage all the nominees to use these methods to pay for their college education.

What is the maximum a winner can expect to win from the scholarship?

These will all depend on the cryptocurrency market and the token market cap. The money will be taken out of the scholarship wallet and converted into BNB. We should see at least 1,000 in the scholarship wallet or an equivalent to 10 Billon tokens, and if the value of 10 Billon tokens is more, then we will award that total value to the Winner.

What happens if the market cap is less than the desired amount? Then we as a community should contribute to make the first Winner of the scholarship a success. If everything fails, then the community leads will meet with the Chef and decide how to proceed. But rest assured that we will do our best to meet our goals.

Future plans

COMMUNITIES

Building a community is essential to any project. We want to create the best environment for all.

We will look for Community Leaders that can help us build the following vital communities.

- English
- Spanish
- Chinese
- Portuguese

If you are interested in being a community leader, pleas reach out to the Chef to get your kitchen set up.



Every coin needs a wallet. Building an Android wallet is something we have in mind. However, we feel that Trust Wallet gives us the best options and stability to transfer coins between each holder. We will keep using Trust Wallet until the community vote and decide on next steps for the token.

NFT

What Is a Non-Fungible Token (NFT)?

Non-fungible tokens or NFTs are cryptographic assets on blockchain with unique identification codes and metadata that distinguish them from each other. Unlike cryptocurrencies, they cannot be traded or exchanged at equivalency. This differs from fungible tokens like cryptocurrencies, which are identical to each other and, therefore, can be used as a medium for commercial transactions.

Non-Fungible Token Definition: Understanding NFTs. https://www.investopedia.com/non-fungible-tokens-nft-5115211

The goal will be to create a version of the Tres Leches Cake from each country into an NFT, so if you are passionate about this, let us know, and we can start to launch International Tasty NFTs for all.

Potential to grow with score points

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

Contract details

Token contract details for 17th November 2021

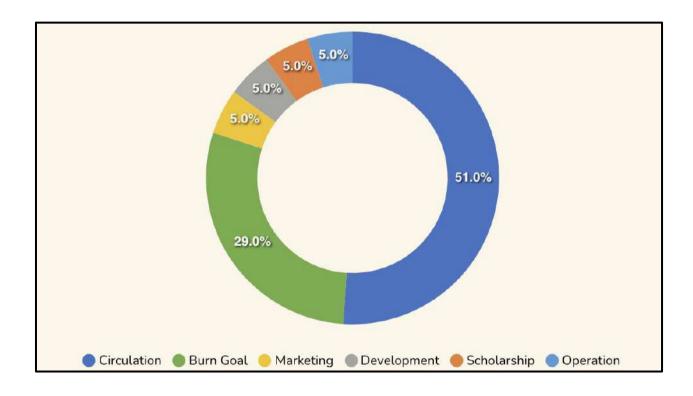
Contract name	Tres Leches Cake
Contract address	0x3e83C58B1C01C4F8c1ab1c9f4df969601e2e7EE6
Token supply	1,000,000,000,000
Token ticker	3LechesCake
Decimals	9
Token holders	1
Transaction count	1
Dev wallet address	0xeee36b8d8d3ea4d717b513ba301d13927f1a54f9
Distributor	0x24d04acc32fadcfa04364439e1a3c7df4528fda1
Marketing wallet	0xecc075cb2926564568f0b7c9a98ac0dc496817d1
Scholarship wallet	0x558b624de1d61379e0a131c7a9c6f6d9dcc14abe
Contract deployer address	0x2840b60e73BaEE5A371cb6C03Cae1AF4311bFb53
Contract's current owner address	0x2840b60e73baee5a371cb6c03cae1af4311bfb53

Token distribution

Tokens are distributed as follows:

Total of 1 trillion tokens, with 51% of the tokens being in circulation, and the other 49% will be distributed as follows.

- Tres Leches Cake Team will add 200B to the Operations Wallet, and this will be divided into the following areas.
 - 50B for Marketing.
 - 50B for Operations.
 - 50B for Development.
 - 50B for the Scholarship Wallet.
- 290B of the remaining will be burned monthly.
 - 30B burned the first month of the token.
 - 20B will be burned every until ran out of tokens to burn.



Contract code function details

No	Category	Item	Result
		BRC20 Token standards	pass
		compile errors	pass
		Compiler version security	pass
		visibility specifiers	pass
		Gas consumption	pass
1	Coding conventions	SafeMath features	pass
		Fallback usage	pass
		tx.origin usage	pass
		deprecated items	pass
		Redundant code	pass
		Overriding variables	pass
		Authorization of function call	pass
2	Function call audit	Low level function (call/delegate call) security	pass
		Returned value security	pass
		Selfdestruct function security	pass
		Access control of owners	pass
3	Business security	Business logics	pass
		Business implementations	pass
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
12	Fake deposit		pass
13	Event security		pass

Contract description table

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 its visibility and mutability.

Contract	Туре	Bases		
L	Function Name	Visibility	Mutability	Modifiers
SafeMath	Library			
L	add	Internal 🖺		
L	sub	Internal 🖺		
L	sub	Internal 🖺		
L	mul	Internal 🖺		
L	div	Internal 🖺		
L	div	Internal 🖺		
IBEP20	Interface			
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[
Auth	Implementation		
L		Public [МО[
L	authorize	Public [onlyOwner
L	unauthorize	Public [onlyOwner
L	isOwner	Public [ио[]
L	isAuthorized	Public [МО[
L	transferOwnership	Public [onlyOwner
IDEXFactory	Interface		
L	createPair	External 🌡	МО[
IDEXRouter	Interface		

L	factory	External [NO[
L	WETH	External [NO[
L	addLiquidity	External [NO[
L	addLiquidityETH	External [<u>dp</u>	МО[
L	swapExactTokens ForTokensSupport ingFeeOnTransfer Tokens	External 🌡		NO
L	swapExactETHFor TokensSupporting FeeOnTransferTo kens	External [QD.	NO
L	swapExactTokens ForETHSupporting FeeOnTransferTo kens	External 🌡		NO[
IDividendDistributor	Interface			
L	setDistributionCrit eria	External 🎚		NO[
L	setShare	External 🎚		NO[
L	deposit	External 🎚	<u>da</u>	NO[
L	process	External 🎚		NO
DividendDistributor	Implementation	IDividendDistributor		
L		Public [NO
L	setDistributionCrit eria	External 🏿		onlyToken

L	setShare	External [onlyToken
L	deposit	External [<u>ab</u>	onlyToken
L	process	External [onlyToken
L	shouldDistribute	Internal 🖺		
L	distributeDividend	Internal 🖺		
L	claimDividend	External [NO
L	getUnpaidEarning s	Public [NO
L	getCumulativeDivi dends	Internal 🖺		
L	addShareholder	Internal 🖺		
L	removeSharehold er	Internal 🖺		
Tresleches	Implementation	IBEP20, Auth		
L		Public [Auth
L		External [<u>ab</u>	NO
L	totalSupply	External [NO
L	decimals	External [NO
L	symbol	External [NO
L	name	External [NO

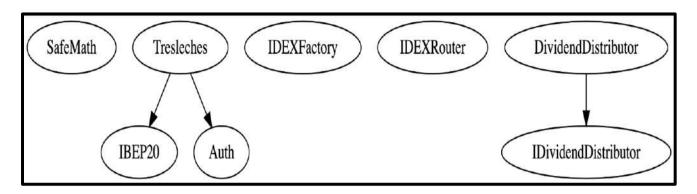
L	getOwner	External [NO
L	balanceOf	Public [NO
L	allowance	External [NO
L	approve	Public [NO
L	approveMax	External [NO
L	transfer	External [NO
L	transferFrom	External [NO
L	_transferFrom	Internal 🖺	
L	_basicTransfer	Internal 🖺	
L	checkTxLimit	Internal 🖺	
L	shouldTakeFee	Internal 🖺	
L	takeFee	Internal 🖺	
L	shouldSwapBack	Internal 🖺	
L	swapBack	Internal 🖺	swapping
L	swapTokensForEt h	Private 🖺	
L	addLiquidity	Private 🖺	
L	swapAndLiquify	Private 🖺	
L	setTakeFess	External [authorized

L	launched	Internal 🖺	
L	launch	Internal 🖺	
L	setTxLimit	External [authorized
L	setIsDividendExe mpt	External [authorized
L	setIsFeeExempt	External [authorized
L	setIsTxLimitExem pt	External [authorized
L	setFees	External [authorized
L	setFeeReceivers	External [authorized
L	setSwapBackSetti ngs	External [authorized
L	setTargetLiquidity	External [authorized
L	setDistributionCrit eria	External [authorized
L	setDistributorSetti ngs	External [authorized
L	getCirculatingSup ply	Public [NO[
L	getLiquidityBackin g	Public [NO[
L	isOverLiquified	Public [NO[

Legend

Symbol	Meaning
	Function can modify state
ű Þ	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

Owner privileges

The owner can enable/disable fees.

```
ftrace|funcSig
function setTakeFess(bool status**) external authorized {
    takeFees = status**;
}
```

The owner can change the max transaction limit.

```
ftrace|funcSig
function setTxLimit(uint256 amount1) external authorized {
    require(amount1 >= _totalSupply / 1000);
    _maxTxAmount = amount1;
}
```

The owner can exempt wallets from fees.

```
ftrace|funcSig
function setIsFeeExempt(address holder1, bool exempt1) external authorized {
    isFeeExempt[holder1] = exempt1;
}
```

❖ The owner can exempt wallets from the max transaction limit.

```
ftrace|funcSig
function setIsTxLimitExempt(address holder1, bool exempt1)
        external
        authorized
{
    isTxLimitExempt[holder1] = exempt1;
}
```

The owner can change all fees.

```
ftrace | funcSig
function setFees(
   uint256 _liquidityFee1,
   uint256 _scholarshipFee*,
   uint256 _reflectionFee*,
   uint256 _marketingFee*,
   uint256 _feeDenominator*
) external authorized {
   liquidityFee = _liquidityFee #;
   scholarshipFee = _scholarshipFee1;
   reflectionFee = _reflectionFee🕆;
   marketingFee = _marketingFee 🕆 ;
   _marketingFee†
   feeDenominator = _feeDenominator1;
   require(totalFee < feeDenominator / 4);
```

The owner can change fee receivers.

```
ftrace|funcSig
function setFeeReceivers(
    address _scholarshipReceiver1,
    address _marketingFeeReceiver1,
    address _devFeeReceiver1
) external authorized {
    scholarshipReceiver = _scholarshipReceiver1;
    marketingFeeReceiver = _marketingFeeReceiver1;
    devFeeReceiver = _devFeeReceiver1;
}
```

❖ The owner can change liquidity and distributor settings.

```
ftrace|funcSig
function setTargetLiquidity(uint256 _target1, uint256 _denominator1)
    external
    authorized
{
    targetLiquidity = _target1;
    targetLiquidityDenominator = _denominator1;
}

ftrace|funcSig
function setDistributionCriteria(
    uint256 _minPeriod1,
    uint256 _minDistribution1
) external authorized {
    distributor.setDistributionCriteria(_minPeriod1, _minDistribution1);
}
```

Audit conclusion

While conducting the audit of the Tres Leches Cake smart contract, it was observed that there is nothing alarming with the code.