

Financial Audit Report

Smart Contract Security Audit

LITTLE DOGE CAKE



PRESENTED BY

Davis Thorne and Partners

Audit Details



Audited project

LITTLE DOGE CAKE



Deployer address

0x414c7ce1961ae4cede5bfba9735098d1013cddf5



Client contacts:

LITTLE DOGE CAKE TEAM



Blockchain

Binance Smart Chain



Project website:



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 below 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

Auditek was commissioned by Little Doge Cake to perform an audit of smart contracts:

https://bscscan.com/address/0xbc537c876510083f7d2406c12fdd93cbe8da4b8a

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

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The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified.

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[1] S. S. H. H. Scholl, M. School, Phys. Lett. B58 (1997) 11, 1277 (1997).

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Contracts Details

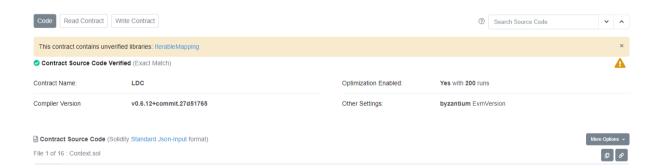
Token contract details for 22.07.2021

Contract name	Little Doge Cake
Contract address	0xbc537c876510083f7d2406c12fdd93cbe8da4b8a
Total supply	10,000,000,000
Token ticker	LDC
Decimals	9
Token holders	305
Transactions count	6,003
Top 100 holders dominance	100.00%
Liquidity fee	9
Tax fee	2
Total fees	0
Uniswap V2 pair	0x93d94fcb0dcc8a88257b2d2eec7a2615ebedb542
Contract deployer address	0x414c7ce1961ae4cede5bfba9735098d1013cddf5
Contract's current owner address	0x414c7ce1961ae4cede5bfba9735098d1013cddf5

LITTLE DOGE CAKE Token Distribution



LITTLE DOGE CAKE Contract Interaction Details



LITTLE DOGE CAKE Top 30 Token Holders

Rank	Address	Quantity (Token)	Percentage
1	Burn Address	519,334,151,209	51.9334%
2	■ PancakeSwap V2: LDC 14	68,204,439,101.859584373325769672	6.8204%
3	0xb1fd1ab6c9b7d47d0bb5fd53ded8b8c2a5780b6a	43,686,191,172.95	4.3686%
4	0xfc3aa03b516dc297b409266e17417d21f188af29	30,000,000,000	3.0000%
5	0x98fd650f36765df04635be4e6a2a81236e959e06	25,000,850,000.349775948698100144	2.5001%
6	0xd333f4a855f647485e2b4a649b326e6652379bb1	24,709,946,843.574059285294170087	2.4710%
7	0x02f14bb3debababd5da6530f42dd90f58c55e192	24,187,863,500.85	2.4188%
8	0xe15776629277763c7c2f802eed9cc66a901e0ae2	20,916,709,623.415961302791731721	2.0917%
9	0xffc52981d42bbabb44701c2f523ee265169c429a	20,606,533,735.861095374601631242	2.0607%
10	0x9bdfa635995067941662658230cc246d17861eed	20,463,455,115.517854987505174203	2.0463%
11	0xa60a75e7286f9ffea70eafc7ee616cb2db9930dc	20,000,000,000	2.0000%
12	0xda7e688558d25c1bf1ac6fac780c0eb572e1431c	14,343,461,003.4	1.4343%
13	0x2929ad2d5e3d5a53edc0e6e26aa849fbe5fe2317	13,611,772,292.361481243129960242	1.3612%
14	0xd35c3ab7dd2d6c805abffa59a3fe49ef50102567	12,941,051,876.591927110781551064	1.2941%
15	0x7d0da0fed33bd8fa410ed6de3b1697f84b918fdc	12,683,423,925.95	1.2683%
16	0xbb2cff736de032ccd77716466a3e55e51eb0b359	12,341,999,999,99999996491884135	1.2342%
17	0x018f801cde5d9c69a09cbc29ae39bc24e6957ff8	11,770,867,016.951706957477454833	1.1771%
18	0x8ad4883942b9ba78a3b5c35fc81b78d2b411e0c4	10,820,876,720	1.0821%
19	0xe33d9937136d517e56eadb78127b2a4cb426eaa8	9,024,922,901.155602159546630072	0.9025%
20	0x172f699d8dce12978279f09b2635e0aef1563117	7,642,409,664.09780942990024809	0.7642%
21	0x66a963c1651dbeb1f366ff2992946abb7fa68877	3,889,726,205.29191511607200463	0.3890%
22	0xe097511154c8cd27d2fc11c78d5d5961e00e95c7	3,569,779,001.7	0.3570%
23	0x09d08d290d294aa760d968baf2f0218b5a8a6d6d	3,556,914,425.847147663995448422	0.3557%
24	0xf798a89ccd0784a0d3f530d42cae4cd9aaceac6b	3,408,084,350	0.3408%
25	0x17d32229bfc3a4d99388b9713f3b5e1fb8b1bc09	2,975,000,000	0.2975%
26	0xdb36eaba005828de928b4d329b4096099c3b6ee6	2,533,308,783.112116524786807552	0.2533%
27	0x0be26ab71f30fc0e05ed1beaff30e52470bdd434	2,287,690,000.85	0.2288%
28	0xa113185c3c0fcfeecad514bc06066b580dcbbec2	1,900,039,000.17	0.1900%
29	0x231916de5074993c5b613eeb158781d3521e22d5	1,831,715,086.503015438386257263	0.1832%
30	0x330f886e37b8b497d1f5b371fe207e9a1c894e5e	1,741,114,500	0.1741%
31	0x3618fa65262631e07c49345f9667031c7dc3aa9c	1,721,913,006.8	0.1722%
32	0x1a14a07d36a9143d0bd31c4dd38d72dd087d16be	1,653,364,892.603060742906958533	0.1653%
33	0x0f06e91d04f183e2b2d596be84e5ebbc8c90874f	1,635,043,000	0.1635%
34	0x16498e9af0ca24616da0675d6897412c7e64a52a	1,549,331,976.95624450406128551	0.1549%
35	0x7a09978ab157011e40377e25054d6690e1e5382a	1,526,402,063.315529270668256423	0.1526%

Contract functions details

+ Context - [Int] _msgSender - [Int] _msgData + [Int] IERC20 - [Ext] totalSupply - [Ext] balanceOf - [Ext] transfer # - [Ext] allowance - [Ext] approve # - [Ext] transferFrom # + [Lib] SafeMath - [Int] add - [Int] sub - [Int] sub - [Int] mul - [Int] div - [Int] div - [Int] mod - [Int] mod + [Lib] Address - [Int] isContract - [Int] sendValue # - [Int] functionCall # - [Int] functionCall # - [Int] functionCallWithValue # - [Int] functionCallWithValue # - [Prv] _functionCallWithValue # + Ownable (Context) - [Pub] <Constructor># - [Pub] owner - [Pub] renounceOwnership # - modifiers: onlyOwner - [Pub] transferOwnership # - modifiers: onlyOwner - [Pub] getUnlockTime - [Pub] getTime - [Pub] lock # - modifiers: onlyOwner - [Pub] unlock # + [Int] IUniswapV2Factory - [Ext] feeTo - [Ext] feeToSetter - [Ext] getPair

- [Ext] allPairs

- [Ext] allPairsLength- [Ext] createPair #

- [Ext] setFeeTo #
 [Ext] setFeeToSetter #
- + [Int] IUniswapV2Pair
 - [Ext] name
 - [Ext] symbol
 - [Ext] decimals
 - [Ext] totalSupply
 - [Ext] balanceOf
 - [Ext] allowance
 - [Ext] approve #
 - [Ext] transfer #
 - [Ext] transferFrom #
 - [Ext] DOMAIN SEPARATOR
 - [Ext] PERMIT_TYPEHASH
 - [Ext] nonces
 - [Ext] permit #
 - [Ext] MINIMUM_LIQUIDITY
 - [Ext] factory
 - [Ext] token0
 - [Ext] token1
 - [Ext] getReserves
 - [Ext] price0CumulativeLast
 - [Ext] price1CumulativeLast
 - [Ext] kLast
 - [Ext] burn #
 - [Ext] swap #
 - [Ext] skim #
 - [Ext] sync #
 - [Ext] initialize #
- + [Int] IUniswapV2Router01
 - [Ext] factory
 - [Ext] WETH
 - [Ext] addLiquidity #
 - [Ext] addLiquidityETH (\$)
 - [Ext] removeLiquidity #
 - [Ext] removeLiquidityETH #
 - [Ext] removeLiquidityWithPermit #
 - [Ext] removeLiquidityETHWithPermit #
 - [Ext] swapExactTokensForTokens #
 - [Ext] swapTokensForExactTokens #
 - [Ext] swapExactETHForTokens (\$)
 - [Ext] swapTokensForExactETH #
 - [Ext] swapExactTokensForETH #
 - [Ext] swapETHForExactTokens (\$)
 - [Ext] quote
 - [Ext] getAmountOut
 - [Ext] getAmountIn
 - [Ext] getAmountsOut
 - [Ext] getAmountsIn
- + [Int] IUniswapV2Router02 (IUniswapV2Router01)
 - [Ext] removeLiquidityETHSupportingFeeOnTransferTokens #
 - [Ext] removeLiquidityETHWithPermitSupportingFeeOnTransferTokens #

- [Ext] swapExactTokensForTokensSupportingFeeOnTransferTokens #
- [Ext] swapExactETHForTokensSupportingFeeOnTransferTokens (\$)
- [Ext] swapExactTokensForETHSupportingFeeOnTransferTokens #
- + Kingwarrior (Context, IERC20, Ownable)
 - [Pub] <Constructor>#
 - [Pub] name
 - [Pub] symbol
 - [Pub] decimals
 - [Pub] totalSupply
 - [Pub] balanceOf
 - [Pub] transfer #
 - [Pub] allowance
 - [Pub] approve #

 - [Pub] transferFrom #
 - [Pub] increaseAllowance #
 - [Pub] decreaseAllowance #
 - [Pub] isExcludedFromReward
 - [Pub] totalFees
 - [Pub] minimumTokensBeforeSwapAmount
 - [Pub] buyBackUpperLimitAmount
 - [Pub] deliver #
 - [Pub] reflectionFromToken
 - [Pub] tokenFromReflection
 - [Pub] excludeFromReward #
 - modifiers: onlyOwner
 - [Ext] includeInReward #
 - modifiers: onlyOwner
 - [Prv] approve #
 - [Prv] _transfer #
 - [Prv] swapTokens #
 - modifiers: lockTheSwap
 - [Prv] buyBackTokens #
 - modifiers: lockTheSwap
 - [Prv] swapTokensForEth #
 - [Prv] swapETHForTokens #
 - [Prv] addLiquidity #
 - [Prv] _tokenTransfer #
 - [Prv] _transferStandard #
 - [Prv] _transferToExcluded #
 - [Prv] _transferFromExcluded #
 - [Prv] transferBothExcluded #
 - [Prv] _reflectFee #
 - [Prv] _getValues
 - [Prv] _getTValues
 - [Prv] _getRValues
 - [Prv] _getRate
 - [Prv] _getCurrentSupply
 - [Prv] _takeLiquidity #
 - [Prv] calculateTaxFee
 - [Prv] calculateLiquidityFee
 - [Prv] removeAllFee #
 - [Prv] restoreAllFee #
 - [Pub] isExcludedFromFee
 - [Pub] excludeFromFee #

- modifiers: onlyOwner
- [Pub] includeInFee #
 - modifiers: onlyOwner
- [Ext] setTaxFeePercent #
 - modifiers: onlyOwner
- [Ext] setLiquidityFeePercent #
 - modifiers: onlyOwner
- [Ext] setMaxTxAmount #
 - modifiers: onlyOwner
- [Ext] setMarketingDivisor #
 - modifiers: onlyOwner
- [Ext] setNumTokensSellToAddToLiquidity #
 - modifiers: onlyOwner
- [Ext] setBuybackUpperLimit #
 - modifiers: onlyOwner
- [Ext] setMarketingAddress #
 - modifiers: onlyOwner
- [Pub] setSwapAndLiquifyEnabled #
 - modifiers: onlyOwner
- [Pub] setBuyBackEnabled #
 - modifiers: onlyOwner
- [Ext] prepareForPreSale #
 - modifiers: onlyOwner
- [Ext] afterPreSale #
 - modifiers: onlyOwner
- [Prv] transferToAddressETH #
- [Ext] <Fallback> (\$)

(\$) = payable function # = non-constant function

Issues Checking Status

Issue description	Checking status
1. Compiler errors.	Passed
2. Race conditions and Reentrancy. Cross-function race conditions.	Passed
3. Possible delays in data delivery.	Passed
4. Oracle calls.	Passed
5. Front running.	Passed
6. Timestamp dependence.	Passed
7. Integer Overflow and Underflow.	Passed
8. DoS with Revert.	Passed
9. DoS with block gas limit.	Low issues
10. Methods execution permissions.	Passed
11. Economy model of the contract.	Passed
12. The impact of the exchange rate on the logic.	Passed
13. Private user data leaks.	Passed
14. Malicious Event log.	Passed
15. Scoping and Declarations.	Passed
16. Uninitialized storage pointers.	Passed
17. Arithmetic accuracy.	Passed
18. Design Logic.	Passed
19. Cross-function race conditions.	Passed
20. Safe Open Zeppelin contracts implementation and usage.	Passed
21. Fallback function security.	Passed

Security Issues

High Severity Issues

No high severity issues found.

Medium Severity Issues

No medium severity issues found.

- Low Severity Issues
 - 1. Out of gas

Issue:

 The function includeInReward() uses the loop to find and remove addresses from the _excluded list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

 The function <u>getCurrentSupply</u> also uses the loop for evaluating total supply. It also could be aborted with <u>OUT_OF_GAS</u> exception if there will be a long excluded addresses list.

Recommendation:

Check that the excluded array length is not too big.

Owner privileges (In the period when the owner is not renounced)

Owner can change tax and liquidity fees.

```
ftrace|funcSig
function setTaxFeePercent(uint256 taxFee1) external onlyOwner() {
    _taxFee = taxFee1;
}

ftrace|funcSig
function setLiquidityFeePercent(uint256 liquidityFee1) external onlyOwner() {
    _liquidityFee = liquidityFee1;
}
```

Owner can change maximum transaction amount.

Owner can exclude from the fee.

```
function excludeFromFee(address account 1) public onlyOwner {
    isExcludedFromFee[account 1] = true;
}
```

Owner can change marketingDivisor.

```
ftrace|funcSig
function setMarketingDivisor(uint256 divisor1) external onlyOwner() {
    marketingDivisor = divisor1;
}
```

Owner can change minimum number of tokens to add to liquidity.

```
ftrace|funcSig
function setNumTokensSellToAddToLiquidity(uint256 _minimumTokensBeforeSwap1) external onlyOwner() {
    minimumTokensBeforeSwap = _minimumTokensBeforeSwap1;
}
```

Owner can change buyBackUpperLimit.

```
ftrace|funcSig
function setBuybackUpperLimit(uint256 buyBackLimit1) external onlyOwner() {
   buyBackUpperLimit = buyBackLimit1 * 10**18;
}
```

Owner can change marketing address.

```
ftrace|funcSig
function setMarketingAddress(address _marketingAddress1) external onlyOwner() {
    marketingAddress = payable(_marketingAddress1);
}
```

Owner can enable and disable buyBack.

```
ftrace|funcSig
function setBuyBackEnabled(bool _enabled1) public onlyOwner {
   buyBackEnabled = _enabled1;
   emit BuyBackEnabledUpdated(_enabled1);
}
```

Owner can enable before and after presale modes.

```
ftrace|funcSig
function prepareForPreSale() external onlyOwner {
    setSwapAndLiquifyEnabled(false);
    LaxFee = 0;
    LiquidityFee = 0;
    maxTxAmount = 10000000000 * 10**6 * 10**9;
}

ftrace|funcSig
function afterPreSale() external onlyOwner {
    setSwapAndLiquifyEnabled(true);
    LaxFee = 2;
    liquidityFee = 9;
    maxTxAmount = 3000000 * 10**6 * 10**9;
}
```

 Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.

```
//Locks the contract for owner for the amount of time provided
function lock(uint256 time) public virtual onlyOwner {
    _previousOwner = _owner;
    _owner = address(0);
    _lockTime = now + time;
    emit OwnershipTransferred(_owner, address(0));
}

//Unlocks the contract for owner when _lockTime is exceeds
function unlock() public virtual {
    require(_previousOwner == msg.sender, "You don't have permission to unlock");
    require(now > _lockTime , "Contract is locked until 7 days");
    emit OwnershipTransferred(_owner, _previousOwner);
    _owner = _previousOwner;
}
```

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope. One third of the liquidity goes to marketing address.

Liquidity locking details NOT provided by the team.

Auditek note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner.