



LameYield Smart Contract Security Audit

TechRate August, 2021

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

TechRate was commissioned by LameYield to perform an audit of smart contracts:

https://github.com/lameyield/Lame-Token/commit/ed3c7883a7185b561f0d4b5748d8fe3850379f60

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.

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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Issues Checking Status

Iss	sue description	Checking status
1. Co	ompiler errors.	Passed
	ace conditions and Reentrancy. Cross-function race onditions.	Passed
3. Po	ossible delays in data delivery.	Passed
4. Or	racle calls.	Passed
5. Fr	ont running.	Passed
6. Tii	mestamp dependence.	Passed
7. In	teger Overflow and Underflow.	Passed
8. Do	oS with Revert.	Passed
9. Do	oS with block gas limit.	Low issues
10. Me	ethods execution permissions.	Passed
11. Ec	conomy model of the contract.	Passed
12. Th	ne impact of the exchange rate on the logic.	Passed
13. Pr	rivate user data leaks.	Passed
14. Ma	alicious Event log.	Passed
15. Sc	coping and Declarations.	Passed
16. Ur	ninitialized storage pointers.	Passed
17. Ar	rithmetic accuracy.	Passed
18. De	esign Logic.	Passed
19. Cr	ross-function race conditions.	Passed
	afe Open Zeppelin contracts implementation and sage.	Passed
21. Fa	allback 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.
- The function _transfer() also uses the loop for calculating buyback amount if _isAutoBuyBack set true. It also could be aborted with OUT_OF_GAS exception if there will be a long sell history list.
- The function _removeOldSellHistories() also uses the loop for removing old sell history items. It also could be aborted with OUT_OF_GAS exception if there will be a long sell history list.

Recommendation:

Check that the arrays' length is not too big.

Notes:

addLiquidity function is not used.

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

- Owner can change tax and liquidity fees.
- Owner can change maximum transaction amount.
- Owner can exclude from the fee.
- Owner can change marketingDivisor.
- Owner can change minimum number of tokens to add to liquidity.
- Owner can change buyBackUpperLimit.
- Owner can exclude and include in swap and liquify.
- Owner can change marketing address.
- Owner can enable and disable buyBack.
- Owner can enable before and after presale modes.
- Owner can lock and unlock. By the way, using these functions the owner could retake privileges even after the ownership was renounced.
- Owner can withdraw tokens.
- Owner can set addresses fees.
- Owner can withdraw BNBs.
- Owner can Uniswap router address.
- Owner can disable and enable auto buyback.
- Owner can change buyBackSellLimit.
- Owner can change buy and sell fees.
- Owner can can change intervalMinutesForSwap.
- Owner can change buyback time interval and range rate.
- Owner can change buyback devisor.
- Owner can change _buyBackMaxTimeForHistories.

Conclusion

Smart contracts contain low severity issues! Liquidity pair contract's security is not checked due to out of scope.

Liquidity locking details NOT provided by the team.

TechRate 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.



