

Taiyaki Swap Smart Contract Security Audit

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 Taiyaki Swap to perform an audit of smart contracts:

• <u>https://bscscan.com/address/0xc9cFF9123fb6E5f2aE462a9fa867E1f2D6A1C3</u> 08#code

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.

Issues Checking Status

Nº	Issue description.	Checking status		
1	Compiler warnings.	Passed Passed		
2	Race conditions and Reentrancy. Cross-function race conditions.			
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.	Passed		
10	Methods execution permissions.	Passed		
11	Economy model.	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 Zeppelin module.	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. Block gas limit

Issue:

The updateEmissionRate function can fail due to block gas limit if the pool size is too big.

2. add function issue

Issue:

If some LP token is added to the contract twice using function add, then the total amount of reward eggReward in function updatePool will be incorrect.

Recommendation:

Add the mapping from address to bool and check that same address will not be added twice.

3. Wrong burning

Issue:

There is sending tokens to the dead address in overridden _transfer functions, instead of burning them in TaiToken.sol.

Recommendation:

There should be a burn instead of sending to the dead address.

Owner privileges

	Owner ca	ın change	the ref	percent	t using 1	the 1	funct	ion setl	Percent	Ł.
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Conclusion

[□] Owner can change the ref balance using the function setRefBalance.

Smart contracts contain medium and low severity issues and owner privileges!

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.