

Advanced Manual Smart Contract Audit



Project: Unicorn Finance

Website: https://unicornfinance.io/

Low-risk

4 low-risk code issues found

Medium-risk

0 medium-risk code issues found

High-risk

O high-risk code issues found

Contract address

0x29A5BC2CAbe7302d6ece110E53CcA4154Ed6E473

Disclaimer: Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

Disclaimer

Coinsult is not responsible if a project turns out to be a scam, rug-pull or honeypot. We only provide a detailed analysis for your own research.

Coinsult is not responsible for any financial losses. Nothing in this contract audit is financial advice, please do your own research.

The information provided in this audit is for informational purposes only and should not be considered investment advice. Coinsult does not endorse, recommend, support or suggest to invest in any project.

Coinsult can not be held responsible for when a project turns out to be a rug-pull, honeypot or scam.

Tokenomics

Rank	Address	Quantity (Token)	Percentage
1	0xda44af0af355b8d6d5537b54d8322ea56e055285	658,480,000,000,000	65.8480%
2	0xbac5a86ef270edbcf5c7eedafad6736daa4e3a54	110,442,707,248,698.43812575	11.0443%
3	Null Address: 0x000dEaD	82,000,000,000,000	8.2000%
4	0x67e3ef1fa097ebb4cc6178741447f576b025db24	50,000,000,000,000	5.0000%
5	0x89e3ab5f8510fd3bea09c00e80a235efb20f0f9b	50,000,000,000,000	5.0000%
6	0x678e805ec8c39469fc73ae92de00f18d5bc175ac	26,431,718,061,674.008810572	2.6432%
7	0x2331e3001ad426ff09ffd617b3b18ea5e731fed5	20,000,000,000,000	2.0000%

Source code

Coinsult was commissioned by Unicorn Finance to perform an audit based on the following smart contract:

https://bscscan.com/address/0x29A5BC2CAbe7302d6ece110E53CcA4154 Ed6E473#code

Manual Code Review

Low-risk

4 low-risk code issues found.

Could be fixed, will not bring problems.

Contract contains Reentrancy vulnerabilities:

_transfer(address,address,uint256)

Additional information: This combination increases risk of malicious intent. While it may be justified by some complex mechanics (e.g. rebase, reflections, buyback).

More information: Slither

Block.timestamp can be manipulated by miners.
 Avoid relying on block.timestamp.

More information:

https://github.com/crytic/slither/wiki/Detector-Documentation#block-timestamp

```
0, // accept any amount of ETH
path,
address(this), // The contract
block.timestamp
```

- Costly operations inside a loop might waste gas, so optimizations are justified.

Use a local variable to hold the loop computation result.

More information:

https://github.com/crytic/slither/wiki/Detector-Documentation#costly-operations-inside-a-loop

- Missing zero address validation. Check that the new address is not zero.

```
function setMarketingAddress(address _marketingAddress) external
onlyOwner() {
        marketingAddress = payable(_marketingAddress);
}
```

Medium-risk

0 medium-risk code issues found. Should be fixed, could bring problems.

High-risk

O high-risk code issues found Must be fixed, and will bring problems.

Extra notes by the team

- Owner can not change the fees
- Contract has fees: 12% buy tax and 11% sell tax.
- Owner can set max transaction amount
- Owner can exclude from fees
- Owner can change the fees without a limit

Contract Snapshot

```
tax, uint256 bb, uint256 mkt, address ma, address ru, address lp)
       marketingAddress = payable( ma);
       lp poolAddress = payable( lp);
       previousTaxFee = taxFee;
       buybackFee = bb;
       previousBuybackFee = buybackFee;
       previousMarketingFee = marketingFee;
       liquidityFee = bb + mkt;
       previousLiquidityFee = liquidityFee;
       minimumTokensBeforeSwap = tTotal.div(10000).mul(2);
       buyBackUpperLimit = 100000 * 10**18;
       uniswapV2Pair = IUniswapV2Factory( uniswapV2Router.factory())
       uniswapV2Router = _uniswapV2Router;
       isExcludedFromFee[owner()] = true;
```

Website Review



Coinsult checks the website completely manually and looks for visual, technical and textual errors. We also look at the security, speed and accessibility of the website. In short, a complete check to see if the website meets the current standard of the web development industry.

- Mobile Friendly
- Contains no jQuery errors
- SSL Secured
- No major spelling errors

Loading speed: 81%

Rug-pull Review

Based on the available information analyzed by us, we come to the following conclusions:

- Locked Liquidity No liquidity yet
- Large unlocked wallets
- No doxxed Team

Honeypot Review

Based on the available information analyzed by us, we come to the following conclusions:

- Ability to sell
- Owner is not able to pause the contract
- Router not hard coded in the contract

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 the project owner.