



## SMART CONTRACT CODE REVIEW AND SECURITY ANALYSIS REPORT



Metabolic  
\$MTBC

19/04/2022

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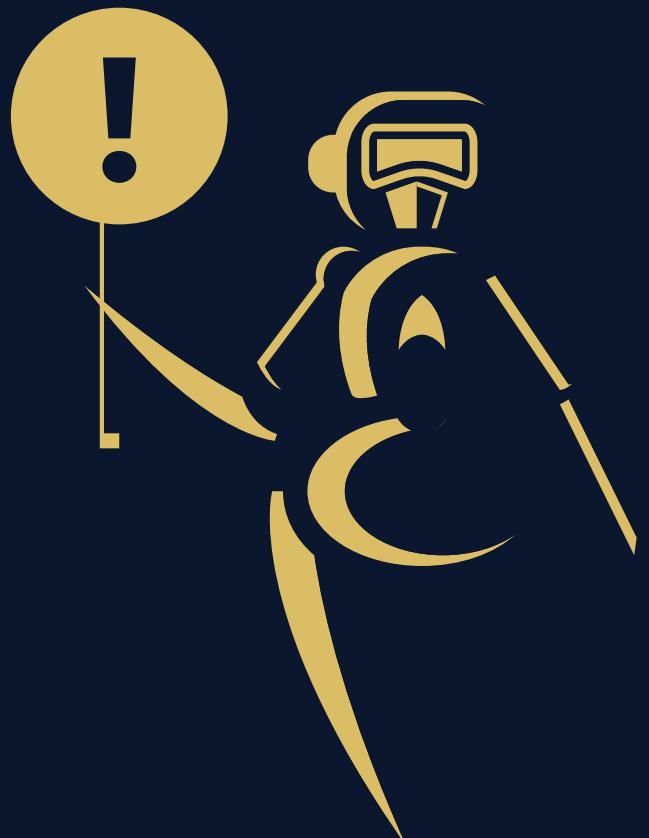
# DISCLAIMER

The information provided on this analysis document is only for general information and should not be used as a reason to invest.

FreshCoins Team will take no payment for manipulating the results of this audit.

The score and the result will stay on this project page information on our website <https://freshcoins.io>

FreshCoins Team does not guarantees that a project will not sell off team supply, or any other scam strategy ( RUG or Honeypot etc )



# INTRODUCTION

FreshCoins (Consultant) was contracted by Metabolic (Customer) to conduct a Smart Contract Code Review and Security Analysis.

0xFC541ec44A41974d76FC0b2F526CAE781ffAbaED

Network: Polygon Network

This report presents the findings of the security assessment of Customer's smart contract and its code review conducted on 19/04/2022



# AUDIT OVERVIEW



**Security Score**



**Static Scan**  
Automatic scanning for common vulnerabilities



**ERC Scan**  
Automatic checks for ERC's conformance



High



Medium



Low



Optimizations



Informational



No.	Issue description	Checking Status
1	Compiler Errors / Warnings	Passed
2	Reentrancy and Cross-function	Passed
3	Front running	Passed
4	Timestamp dependence	Passed
5	Integer Overflow and Underflow	Passed
6	Reverted DoS	Passed
7	DoS with block gas limit	Passed
8	Methods execution permissions	Passed
9	Exchange rate impact	Passed
10	Malicious Event	Passed
11	Scoping and Declarations	Passed
12	Uninitialized storage pointers	Passed
13	Design Logic	Passed
14	Safe Zeppelin module	Passed

# OWNER PRIVILEGES

Contract owner can't mint tokens after initial contract deploy

Contract owner can't exclude an address from transactions

Contract owner can exclude/include wallet from dividends

```
function excludeFromDividends(address account) external onlyOwner {
    require(!excludedFromDividends[account]);
    excludedFromDividends[account] = true;

    _setBalance(account, 0);
    tokenHoldersMap.remove(account);

    emit ExcludeFromDividends(account);
}
```

Contract owner can exclude/include wallet(s) from tax

```
function excludeFromFees(address account, bool excluded) public onlyOwner {
    require(
        _isExcludedFromFees[account] != excluded,
        "BABYTOKEN: Account is already the value of 'excluded'"
    );
    _isExcludedFromFees[account] = excluded;

    emit ExcludeFromFees(account, excluded);
}

function excludeMultipleAccountsFromFees(
    address[] calldata accounts,
    bool excluded
) public onlyOwner {
    for (uint256 i = 0; i < accounts.length; i++) {
        _isExcludedFromFees[accounts[i]] = excluded;
    }

    emit ExcludeMultipleAccountsFromFees(accounts, excluded);
}
```

Contract owner can change swap settings

```
function setSwapTokensAtAmount(uint256 amount) external onlyOwner {
    swapTokensAtAmount = amount;
}
```

## Contract owner can change fees up to 25%

```
function setTokenRewardsFee(uint256 value) external onlyOwner {
    tokenRewardsFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}

function setLiquidityFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}
```

## Contract owner can change `_marketingWalletAddress` address

Current value:

`_marketingWalletAddress` : 0x3a6a3ba65e43ca8cd16fe3dc20caaf618c0761b7

```
function setMarketingWallet(address payable wallet) external onlyOwner {
    _marketingWalletAddress = wallet;
}
```

## Contract owner can renounce ownership

```
function renounceOwnership() public virtual onlyOwner {
    _setOwner(address(0));
}
```

## Contract owner can transfer ownership

```
function transferOwnership(address newOwner) public virtual onlyOwner {
    require(newOwner != address(0), "Ownable: new owner is the zero address");
    _setOwner(newOwner);
}
```



# CONCLUSION AND ANALYSIS



Smart Contracts within the scope were manually reviewed and analyzed with static tools.



Audit report overview contains all found security vulnerabilities and other issues in the reviewed code.



Found no issue during the first review.

# TOKEN DETAILS

## Details

Buy fees: 10%

Sell fees: 10%

Max TX: N/A

Max Sell: N/A

## Honeypot Risk

Ownership: Owned

Blacklist: Not detected

Modify Max TX: Not detected

Modify Max Sell: Not detected

Disable Trading: Not detected

## Rug Pull Risk

Liquidity: N/A

Holders: Clean



# METABOLIC TOKEN

## TOP 20 TOKEN HOLDERS

Rank	Address	Quantity	Percentage	Analytics
1	0x5a89f17f632e02523c25b11f4fa04f91763b925a	3,617,599,994.35	36.1760%	
2	0xaa42041c6201cc6733a70fc36d9a46687e52c769	1,011,814,273.802538665585383649	10.1181%	
3	0x521166cc5e32fd702a26ca3b3bbe88c59107ca85	400,005,877.06	4.0001%	
4	0xe4b965a1ca2f2ca84d098435054d6d09abc54b65	171,750,593.04	1.7175%	
5	0x95bf526bc9a82df996e23ea0ef7dfe910cdb18b5	161,109,932.55	1.6111%	
6	0xd7ad4b200116ee8b7d29ea922e83887f9188a4ee	156,856,047.51	1.5686%	
7	0x9cc54f77ac443f9e4ab258d9742465b300d28e5	139,451,085.67	1.3945%	
8	0x416de3d181335831bb92cdde7567394217f5c2a3	122,452,326.21	1.2245%	
9	0xf51e013933d7752dfab77b369842ca6f2c0dc42c	113,747,626.76	1.1375%	
10	0x361876869428e6b70d83cc19a5a9d4b5ac6813e7	105,888,875.66	1.0589%	
11	0x92da998820dd40702e7ac68f2ae30904979b7574	101,275,388.51	1.0128%	
12	0x2c77e33a626acfdbf0f101506ffa197b6374a3c6	100,684,197.18	1.0068%	
13	0x8e4063c7bede9766adae4a6e4f39f0cff8cdeaa3	90,070,046	0.9007%	
14	0xfcfc3843ea7a91c7482b39c7a352d16875c0a8b8a	88,533,142.114090199647523321	0.8853%	
15	0x0ded6a12662b3080f4d67453def120b001b4e021	85,159,844	0.8516%	
16	0xa96e64f75dd576342da2b7229d241dad2deda4e4	82,143,037.17	0.8214%	
17	0x738063d6ff8f7c88786473de68cc62553f6df2d9	80,889,423.46	0.8089%	
18	0xfd5d6c79c9972e13d54fd0d49df287879ad7b087	79,214,567.2	0.7921%	
19	0xfc53f8bda47cf8f240903b7224f606b41a5cd9b6	76,165,115	0.7617%	
20	0xd63f3fd47f77470eb610de042d36d3871ed757da	73,682,652.45	0.7368%	

# TECHNICAL DISCLAIMER

Smart contracts are deployed and executed on the blockchain platform. The platform, its programming language, and other software related to the smart contract can have its vulnerabilities that can lead to hacks. The audit can't guarantee the explicit security of the audited project / smart contract.

