



Baby Elon Token

RugfreeCoins Verified on July 31st, 2023

Overview

- ✓ No mint function found, the owner cannot mint tokens after initial deployment.
- ✓ The owner can't set a max transaction limit
- ✓ The owner can't pause trading once it's enabled
- ✓ The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell. **Resolved: Trade enable function has already been called**
- ✓ The owner can't change fees.
- ✓ The owner can't blacklist wallets.
- ✓ The owner can't set a max wallet limit
- ✓ The owner can't claim the contract's balance of its own token.

! HIGH SEVERITY ISSUES

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

Resolved - : Trade enable function has already been called

```
function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

The owner can set the swap point without any maximum limitation. If the owner sets this to a higher limit, selling can be stopped when the contract attempts to swap a very large amount of tokens at a time.

```
function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}
```

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Audit details



Audited project
Baby Elon Token



Contract Address
0xc42b8fb310af20613E63F57510E5B7db92A41061



Client contact
Baby Elon Token Team



Blockchain
Binance Smart chain



Project website
<https://www.babyelon.live/>

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 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

RugfreeCoins was commissioned by the **Baby Elon Token Team** to perform an audit of the smart contract.

<https://bscscan.com/token/0xc42b8fb310af20613E63F57510E5B7db92A41061>

This audit focuses on verifying that the smart contract is secure, resilient, and working according to the specifications.

The information in this report should be used to understand the risk exposure of the smart contract, project feasibility, and long-term sustainability, and as a guide to improving the smart contract's security posture by remediating the identified issues.

Tokenomics

▲ 5% tax when buying & selling (31/07/2023)

5% of trade goes to the marketing wallet in BNB












0% trade is distributed among holders as rewards in tokens.

0% of trade goes to the liquidity pool.

Target market and the concept

- ▶ Anyone who's interested in the Crypto space with long-term investment plans.
- ▶ Anyone who's ready to earn a passive income by holding tokens.
- ▶ Anyone who's interested in trading tokens.
- ▶ Anyone who's interested in taking part in the Baby Elon token ecosystem.
- ▶ Anyone who's interested in taking part in the future plans of Baby Elon Token.
- ▶ Anyone who's interested in making financial transactions with any other party using Baby Elon Token as the currency.

Potential to grow with score points

 Project efficiency	8 / 10
 Project uniqueness	7 / 10
 Information quality	8 / 10
 Service quality	8 / 10
 System quality	8 / 10
 Impact on the community	8 / 10
 Impact on the business	9 / 10
 Preparing for the future	8 / 10
 Smart contract security	9 / 10
 Smart contract functionality assessment	9 / 10
 Total Score	8.2/ 10

Contract details

Token contract details for 31st of July 2023






























Contract name	Baby Elon
Contract address	0xc42b8fb310af20613E63F57510E5B7db92A41061
Token supply	254,000,000,000
Token ticker	Baby Elon
Decimals	9
Token holders	3
Transaction count	4
Contract deployer address	0x7a48bD6a279AF4D55e5D7110caAe68e4F53328Cd
Contract's current owner address	0x7a48bd6a279af4d55e5d7110caae68e4f53328cd
Marketing wallet	0xa142279f7cbabaa334fe7489cd492b21b9108450

Contract code function details

Nº	Category	Item	Result
1	Coding conventions	BRC20 Token standards	PASS ▾
		Compile errors	PASS ▾
		Compiler version security	PASS ▾
		Visibility specifiers	PASS ▾
		Gas consumption	MEDIUM ▾
		SafeMath features	PASS ▾
		Fallback usage	PASS ▾
		tx.origin usage	PASS ▾
		Deprecated items	PASS ▾
		Redundant code	PASS ▾
2	Function call audit	Overriding variables	PASS ▾
		Authorization of function call	PASS ▾
		Low level function (call/delegate call) security	PASS ▾
		Returned value security	PASS ▾
3	Business security & centralisation	Self destruct function security	PASS ▾
		Access control of owners	HIGH ▾
		Business logics	PASS ▾
4	Integer overflow/underflow	Business implementation	PASS ▾
5	Reentrancy		PASS ▾
6	Exceptional reachable state		PASS ▾
7	Transaction ordering dependence		PASS ▾
8	Block properties dependence		PASS ▾
9	Pseudo random number generator (PRNG)		PASS ▾
10	DoS (Denial of Service)		PASS ▾
11	Token vesting implementation		PASS ▾
12	Fake deposit		PASS ▾
13	Event security		PASS ▾












Contract description table

The below table represents the summary of the contracts and methods in the token contract. We scanned the whole contract and listed down all the Interfaces, functions, and implementations with their visibility and mutability.

Contract	Type	Bases		
L	Function Name	Visibility	Mutability	Modifiers
Context	Implementation			
L	_msgSender	Internal 		
L	_msgData	Internal 		
Ownable	Implementation	Context		
L		Public 		NO 
L	owner	Public 		NO 
L	renounceOwnership	Public 		onlyOwner
L	transferOwnership	Public 		onlyOwner
IERC20	Interface			
L	totalSupply	External 		NO 
L	balanceOf	External 		NO 
L	transfer	External 		NO 
L	allowance	External 		NO 
L	approve	External 		NO 
L	transferFrom	External 		NO 
Address	Library			
L	isContract	Internal 		
L	sendValue	Internal 		

L	functionCall	Internal 🔒	🛑	
L	functionCall	Internal 🔒	🛑	
L	functionCallWithValue	Internal 🔒	🛑	
L	functionCallWithValue	Internal 🔒	🛑	
L	_functionCallWithValue	Private 🔒	🛑	
IUniswapV2Factory	Interface			
L	feeTo	External !		NO !
L	feeToSetter	External !		NO !
L	getPair	External !		NO !
L	allPairs	External !		NO !
L	allPairsLength	External !		NO !
L	createPair	External !	🛑	NO !
L	setFeeTo	External !	🛑	NO !
L	setFeeToSetter	External !	🛑	NO !
IUniswapV2Pair	Interface			
L	name	External !		NO !
L	symbol	External !		NO !
L	decimals	External !		NO !
L	totalSupply	External !		NO !
L	balanceOf	External !		NO !
L	allowance	External !		NO !
L	approve	External !	🛑	NO !
L	transfer	External !	🛑	NO !
L	transferFrom	External !	🛑	NO !
L	DOMAIN_SEPARATOR	External !		NO !
L	PERMIT_TYPEHASH	External !		NO !
L	nonces	External !		NO !

L	permit	External !		NO !
L	MINIMUM_LIQUIDITY	External !		NO !
L	factory	External !		NO !
L	token0	External !		NO !
L	token1	External !		NO !
L	getReserves	External !		NO !
L	price0CumulativeLast	External !		NO !
L	price1CumulativeLast	External !		NO !
L	kLast	External !		NO !
L	burn	External !		NO !
L	swap	External !		NO !
L	skim	External !		NO !
L	sync	External !		NO !
L	initialize	External !		NO !
IUniswapV2Router01	Interface			
L	factory	External !		NO !
L	WETH	External !		NO !
L	addLiquidity	External !		NO !
L	addLiquidityETH	External !		NO !
L	removeLiquidity	External !		NO !
L	removeLiquidityETH	External !		NO !
L	removeLiquidityWithPermit	External !		NO !
L	removeLiquidityETHWithPermit	External !		NO !
L	swapExactTokensForTokens	External !		NO !
L	swapTokensForExactTokens	External !		NO !
L	swapExactETHForTokens	External !		NO !
L	swapTokensForExactETH	External !		NO !
L	swapExactTokensForETH	External !		NO !

L	swapETHForExactTokens	External !		NO !
L	quote	External !		NO !
L	getAmountOut	External !		NO !
L	getAmountIn	External !		NO !
L	getAmountsOut	External !		NO !
L	getAmountsIn	External !		NO !
IUniswapV2Router02	Interface	IUniswapV2 Router01		
L	removeLiquidityETHSupportingFeeOnTransferTokens	External !		NO !
L	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactETHForTokensSupportingFeeOnTransferTokens	External !		NO !
L	swapExactTokensForETHSupportingFeeOnTransferTokens	External !		NO !
BabyElon	Implementation	Context, IERC20, Ownable		
L		Public !		NO !
L	name	Public !		NO !
L	symbol	Public !		NO !
L	decimals	Public !		NO !
L	totalSupply	Public !		NO !
L	balanceOf	Public !		NO !
L	transfer	Public !		NO !
L	allowance	Public !		NO !
L	approve	Public !		NO !
L	transferFrom	Public !		NO !
L	increaseAllowance	Public !		NO !

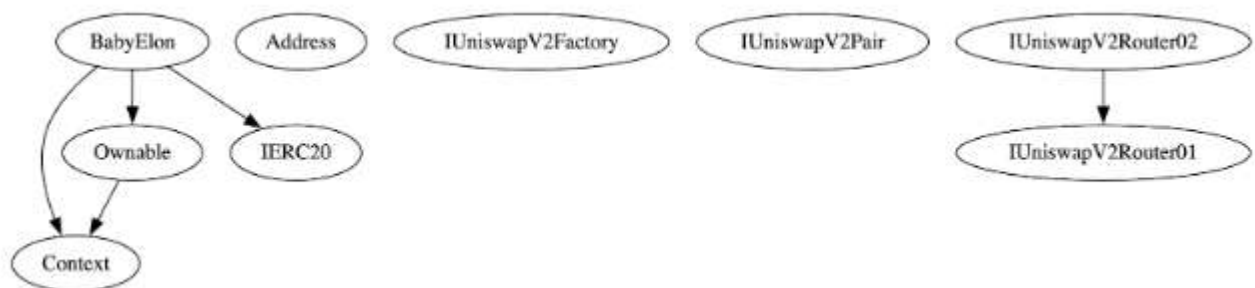
L	decreaseAllowance	Public !	●	NO !
L	isExcludedFromReward	Public !		NO !
L	totalReflectionDistributed	Public !		NO !
L	deliver	Public !	●	NO !
L	reflectionFromToken	Public !		NO !
L	tokenFromReflection	Public !		NO !
L	excludeFromReward	Public !	●	onlyOwner
L	includeInReward	External !	●	onlyOwner
L		External !	📄	NO !
L	claimStuckTokens	External !	●	onlyOwner
L	_reflectFee	Private 🔒	●	
L	_getValues	Private 🔒		
L	_getTVValues	Private 🔒		
L	_getRValues	Private 🔒		
L	_getRate	Private 🔒		
L	_getCurrentSupply	Private 🔒		
L	_takeLiquidity	Private 🔒	●	
L	_takeMarketing	Private 🔒	●	
L	calculateTaxFee	Private 🔒		
L	calculateLiquidityFee	Private 🔒		
L	calculateMarketingFee	Private 🔒		
L	removeAllFee	Private 🔒	●	
L	setBuyFee	Private 🔒	●	
L	setSellFee	Private 🔒	●	
L	isExcludedFromFee	Public !		NO !
L	_approve	Private 🔒	●	
L	enableTrading	External !	●	onlyOwner
L	_transfer	Private 🔒	●	
L	swapAndLiquify	Private 🔒	●	

L	swapAndSendMarketing	Private 🔒	🔴	
L	setSwapTokensAtAmount	External !	🔴	onlyOwner
L	setSwapEnabled	External !	🔴	onlyOwner
L	_tokenTransfer	Private 🔒	🔴	
L	_transferStandard	Private 🔒	🔴	
L	_transferToExcluded	Private 🔒	🔴	
L	_transferFromExcluded	Private 🔒	🔴	
L	_transferBothExcluded	Private 🔒	🔴	
L	excludeFromFees	External !	🔴	onlyOwner
L	changeMarketingWallet	External !	🔴	onlyOwner

Legend

Symbol	Meaning
🔴	Function can modify state
💰	Function is payable

Inheritance Hierarchy



Security issue checking status

❖ High severity issues

The owner must enable trade for the holders, if trading remains disabled, no one would be able to buy and sell.

Resolved : Trade enable function has already been called

```
Baby Elon

function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

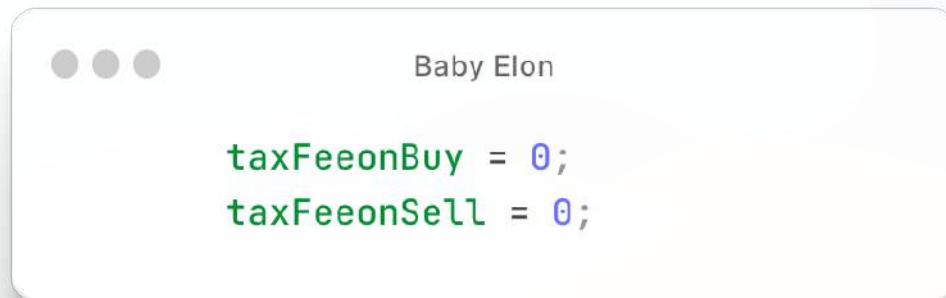
The owner can set the swap point without any maximum limitation. If the owner sets this to a higher limit, selling can be stopped when the contract attempts to swap a very large amount of tokens at a time.

```
Baby Elon

function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}
```

❖ Medium severity issues

To save gas, remove all functions related to native token rewards, as the contract sets the native token reward fees to 0, resulting in no accumulation of native tokens rewards.



❖ Low severity issues

No low-severity issues found

Owner privileges

- ❖ Owner can claim any BEP20 tokens and BNB from the contract (can not get native tokens)

```
function claimStuckTokens(address token) external onlyOwner {
    require(token != address(this), "Owner cannot claim native tokens");
    if (token == address(0x0)) {
        payable(msg.sender).sendValue(address(this).balance);
        return;
    }
    IERC20 ERC20token = IERC20(token);
    uint256 balance = ERC20token.balanceOf(address(this));
    ERC20token.transfer(msg.sender, balance);
}
```

- ❖ Owner can enable trading,once enabled can not disable again

```
function enableTrading() external onlyOwner{
    require(tradingEnabled == false, "Trading is already enabled");
    tradingEnabled = true;
}
```

- ❖ Owner can change swap point minimum up to 0.001% and no max limits

```
Baby Elon

function setSwapTokensAtAmount(uint256 newAmount) external onlyOwner() {
    require(newAmount > totalSupply() / 1e5, "SwapTokensAtAmount must be greater than 0.001% of total supply");
    swapTokensAtAmount = newAmount;
    emit SwapTokensAtAmountUpdated(newAmount);
}
```

- ❖ Owner can enable/disable swapping

```
Baby Elon

function setSwapEnabled(bool _enabled) external onlyOwner {
    swapEnabled = _enabled;
    emit SwapEnabledUpdated(_enabled);
}
```

- ❖ Owner can include/exclude wallets from fees

```
Baby Elon

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

    emit ExcludeFromFees(account, excluded);
}
```

❖ Owner can change marketing wallet

```
function changeMarketingWallet(address _marketingWallet) external onlyOwner {
    require(_marketingWallet != marketingWallet, "Marketing wallet is already
that address");
    require(_marketingWallet!=address(0), "Marketing wallet is the zero
address");
    marketingWallet = _marketingWallet;
    emit MarketingWalletChanged(marketingWallet);
}
```

Audit conclusion

RugFreeCoins team has performed in-depth testing, line-by-line manual code review, and automated audit of the smart contract. The smart contract was analyzed mainly for common smart contract vulnerabilities, exploits, manipulations, and hacks. According to the smart contract audit.

Smart contract functional Status:	PASS ▾
Smart contract security status:	High & Medium ▾
Number of risk issues:	2
Solidity code functional issue level:	PASS ▾
Number of owner privileges:	6
Centralization risk correlated to the active owner:	HIGH ▾
Smart contract active ownership:	ACTIVE ▾