

# Audit Report BeePro

December 2022

Type BEP20

Network BSC

Address 0x3498EA63bBa189228F8aF0bDA775ac1Cc339E119

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## **Contract Review**

Contract Name	AntiBotLiquidityGeneratorToken
Compiler Version	v0.8.4+commit.c7e474f2
Optimization	200 runs
Licence	MIT
Explorer	https://bscscan.com/token/0x3498EA63bBa189228F8aF 0bDA775ac1Cc339E119
Symbol	BEPRO
Decimals	9
Total Supply	1,000,000,000
Domain	beepro.dev

# Source Files

Filename	SHA256
contract.sol	085d72cf8534260b8f6411f47055b7a60f5a3ac2da59c339 d681dafa329d19e0

# **Audit Updates**

Initial Audit	14th December 2022
Corrected	

# **Contract Analysis**

Critical
 Medium
 Minor / Informative
 Pass

Severity	Code	Description	Status
•	ST	Stops Transactions	Passed
•	OCTD	Transfers Contract's Tokens	Passed
•	OTUT	Transfers User's Tokens	Passed
•	ELFM	Exceeds Fees Limit	Passed
•	ULTW	Transfers Liquidity to Team Wallet	Passed
•	MT	Mints Tokens	Passed
•	BT	Burns Tokens	Passed
•	ВС	Blacklists Addresses	Passed

# **Contract Diagnostics**

CriticalMediumMinor / Informative

Severity	Code	Description	Status
•	PVC	Price Volatility Concern	Unresolved
•	RSML	Redundant SafeMath Library	Unresolved
•	L04	Conformance to Solidity Naming Conventions	Unresolved
•	L07	Missing Events Arithmetic	Unresolved
•	L09	Dead Code Elimination	Unresolved



#### PVC - Price Volatility Concern

Criticality	minor / informative
Location	contract.sol#L1292
Status	Unresolved

#### Description

The numTokensSellToAddToLiquidity could produce a dramatically price volatility. If the variable set to a high number, then the contract will sell a huge amount of tokens in a single transaction.

```
function setSwapBackSettings(uint256 _amount) external onlyOwner {
    require(_amount >= totalSupply().mul(5).div(10**4), "Swapback amount should
be at least 0.05% of total supply");
    numTokensSellToAddToLiquidity = _amount;
    emit SwapAndLiquifyAmountUpdated(_amount);
}
```

#### Recommendation

The contract could ensure that it will not sell more than a reasonable amount of tokens once. A suggested implementation could check that the maximum amount should be less than a fixed percentage of the total supply.



## RSML - Redundant SafeMath Library

Criticality	minor / informative
Location	contract.sol#L201
Status	Unresolved

#### Description

The Solidity versions that are greater than or equal to 0.8.0 do not need the use of SafeMath Library. The usage of the SafeMath library produces unnecessary additional gas.

```
library SafeMath {
    ...
}
```

#### Recommendation

The team is advised to remove the SafeMath library as it is safe to do math operations without it.



# L04 - Conformance to Solidity Naming Conventions

Criticality	minor / informative
Location	contract.sol#L1435,1068,961,969,1431,1292,641,958,964,1443
Status	Unresolved

#### Description

Solidity defines a naming convention that should be followed. Rule exceptions:

- Allow constant variable name/symbol/decimals to be lowercase.
- Allow \_ at the beginning of the mixed\_case match for private variables and unused parameters.

```
_amount
_enable
_liquidityFee
_charityAddress
WETH
_taxFee
_charityFee
...
```

#### Recommendation

Follow the Solidity naming convention.

https://docs.soliditylang.org/en/v0.8.17/style-guide.html#naming-conventions.

# L07 - Missing Events Arithmetic

Criticality	minor / informative
Location	contract.sol#L1284,1273,1265
Status	Unresolved

#### Description

Detected missing events for critical arithmetic parameters. There are functions that have no event emitted, so it is difficult to track off-chain changes.

```
_charityFee = charityFeeBps
_liquidityFee = liquidityFeeBps
_taxFee = taxFeeBps
```

#### Recommendation

Emit an event for critical parameter changes.



#### L09 - Dead Code Elimination

Criticality	minor / informative
<b>Location</b> contract.sol#L610,469,523,593,583,537,556,441,504,566,494	
Status	Unresolved

#### Description

Functions that are not used in the contract, and make the code's size bigger.

verifyCallResult sendValue functionCallWithValue functionDelegateCall functionStaticCall isContract functionCall

Recommendation

Remove unused functions.



# **Contract Functions**

Contract	Туре	Bases		
	Function Name	Visibility	Mutability	Modifiers
IERC20	Interface			
ILNO20	totalSupply	External		
	balanceOf	External		-
	transfer	External	<b>/</b>	
	allowance	External	<b>V</b>	-
		External	<b>✓</b>	-
	approve			
	transferFrom	External	✓	-
Context	Implementation			
	_msgSender	Internal		
	_msgData	Internal		
Ownable	Implementation	Context		
	<constructor></constructor>	Public	1	-
	owner	Public		-
	renounceOwnership	Public	1	onlyOwner
	transferOwnership	Public	1	onlyOwner
	_setOwner	Private	1	
SafeMath	Library			
	tryAdd	Internal		
	trySub	Internal		
	tryMul	Internal		
	tryDiv	Internal		
	tryMod	Internal		
	add	Internal		
	sub	Internal		
	mul	Internal		
	div	Internal		



mod	Internal		
sub	Internal		
mod	Internal		
Librani			
	lata wa al		
		<b>/</b>	
functionCall	Internal	<b>√</b>	
functionCallWithValue	Internal	<b>√</b>	
functionCallWithValue	Internal	✓	
functionStaticCall	Internal		
functionStaticCall	Internal		
functionDelegateCall	Internal	✓	
functionDelegateCall	Internal	✓	
verifyCallResult	Internal		
Interface			
factory	External		-
WETH	External		-
addLiquidity	External	<b>✓</b>	-
addLiquidityETH	External	Payable	-
removeLiquidity	External	1	-
removeLiquidityETH	External	✓	-
removeLiquidityWithPermit	External	1	-
removeLiquidityETHWithPermit	External	1	-
swapExactTokensForTokens	External	1	-
swapTokensForExactTokens	External	1	-
swapExactETHForTokens	External	Payable	-
swapTokensForExactETH	External	✓	-
swapExactTokensForETH	External	<b>✓</b>	-
	External		-
	External		_
quote	LAIGITIAI		
	sub div mod  Library isContract sendValue functionCall functionCallWithValue functionStaticCall functionDelegateCall functionDelegateCall verifyCallResult  Interface factory WETH addLiquidity addLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETH removeLiquidityETHOremit swapExactTokensForTokens swapTokensForExactTokens swapTokensForExactETH swapExactTokensForETH swapExactTokensForETH swapETHForExactTokens	sub div Internal div Internal mod Internal mod Internal  Library isContract Internal sendValue Internal functionCall Internal functionCallWithValue Internal functionCallWithValue Internal functionStaticCall Internal functionDelegateCall Internal functionDelegateCall Internal functionDelegateCall Internal functionDelegateCall Internal removeLiquidity External addLiquidityETH External removeLiquidityWithPermit External removeLiquidityWithPermit External swapExactTokensForTokens External swapExactTokensForExactTH External swapExactTokensForETH External swapExactTokensForExactTokens External swapExactTokensForEth External swapExactTokensForEth External swapExactTokensForExactTokens External swapExactTokensForExactTokens External swapExactTokensForExactEth External swapExactTokensForExactEth External	sub div Internal div Internal mod Internal  Library isContract Internal sendValue Internal functionCall Internal functionCall Internal functionCallWithValue Internal functionStaticCall Internal functionStaticCall Internal functionDelegateCall Internal functionDelegateCall Internal verifyCallResult Internal Internal Internal  VerifyCallResult Internal  Internal  VerifyCallResult Internal  Internal  Internal  Internal  VerifyCallResult Internal  Internal  VerifyCallResult Internal  Internal  Internal  Internal  Verify External  AddLiquidity External  AddLiquidity External  FermoveLiquidity External  VermoveLiquidity External  VermoveLiquidityETH External  Verm



	getAmountIn	External		-
	getAmountsOut	External		-
	getAmountsIn	External		-
IUniswapV2Ro uter02	Interface	IUniswapV2 Router01		
	removeLiquidityETHSupportingFeeOn TransferTokens	External	<b>✓</b>	-
	removeLiquidityETHWithPermitSupportingFeeOnTransferTokens	External	<b>✓</b>	-
	swapExactTokensForTokensSupporti ngFeeOnTransferTokens	External	<b>✓</b>	-
	swapExactETHForTokensSupporting FeeOnTransferTokens	External	Payable	-
	swapExactTokensForETHSupporting FeeOnTransferTokens	External	1	-
IUniswapV2Fa ctory	Interface			
	feeTo	External		-
	feeToSetter	External		-
	getPair	External		-
	allPairs	External		-
	allPairsLength	External		-
	createPair	External	1	-
	setFeeTo	External	1	-
	setFeeToSetter	External	1	-
IPinkAntiBot	Interface			
	setTokenOwner	External	<b>√</b>	_
	onPreTransferCheck	External	✓ ·	-
BaseToken	Implementation			
AntiBotLiquidi tyGeneratorTo ken	Implementation	IERC20, Ownable, BaseToken		
	<constructor></constructor>	Public	Payable	-



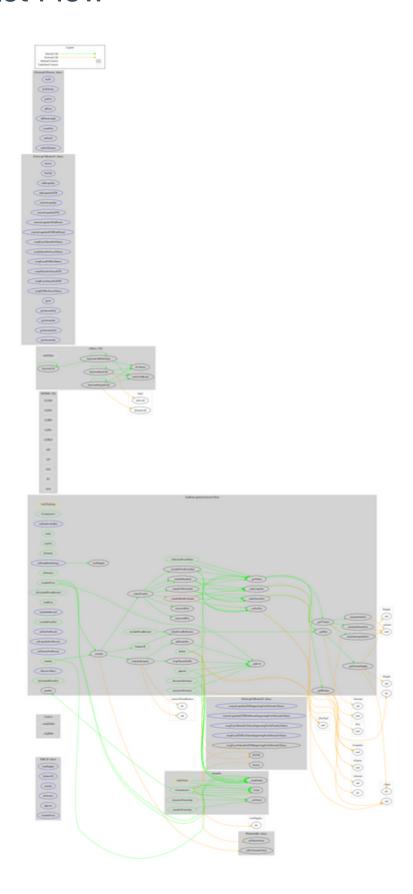
setEnableAntiBot	External	✓	onlyOwner
name	Public		-
symbol	Public		-
decimals	Public		-
totalSupply	Public		-
balanceOf	Public		-
transfer	Public	<b>✓</b>	-
allowance	Public		-
approve	Public	<b>✓</b>	-
transferFrom	Public	1	-
increaseAllowance	Public	1	-
decreaseAllowance	Public	1	-
isExcludedFromReward	Public		-
totalFees	Public		-
deliver	Public	1	-
reflectionFromToken	Public		-
tokenFromReflection	Public		-
excludeFromReward	Public	1	onlyOwner
includeInReward	External	<b>✓</b>	onlyOwner
_transferBothExcluded	Private	1	
excludeFromFee	Public	<b>✓</b>	onlyOwner
setTaxFeePercent	External	<b>✓</b>	onlyOwner
setLiquidityFeePercent	External	<b>✓</b>	onlyOwner
setCharityFeePercent	External	1	onlyOwner
setSwapBackSettings	External	1	onlyOwner
<receive ether=""></receive>	External	Payable	-
_reflectFee	Private	1	
_getValues	Private		
_getTValues	Private		
_getRValues	Private		
_getRate	Private		
_getCurrentSupply	Private		
_takeLiquidity	Private	<b>✓</b>	
_takeCharityFee	Private	<b>✓</b>	
calculateTaxFee	Private		



calculateLiquidityFee	Private		
calculateCharityFee	Private		
removeAllFee	Private	1	
restoreAllFee	Private	✓	
isExcludedFromFee	Public		-
_approve	Private	✓	
_transfer	Private	✓	
swapAndLiquify	Private	✓	lockTheSwap
swapTokensForEth	Private	✓	
addLiquidity	Private	✓	
_tokenTransfer	Private	✓	
_transferStandard	Private	✓	
_transferToExcluded	Private	✓	
_transferFromExcluded	Private	✓	



# **Contract Flow**



# Domain Info

Domain Name	beepro.dev
Registry Domain ID	4A412E430-DEV
Creation Date	2022-10-19T20:37:14Z
Updated Date	2022-10-24T20:37:14Z
Registry Expiry Date	2023-10-19T20:37:14Z
Registrar WHOIS Server	whois.namecheap.com
Registrar URL	https://www.namecheap.com/
Registrar	Namecheap Inc.
Registrar IANA ID	1068

The domain was created about 2 months before the creation of the audit. It will expire in 10 months.

There is no public billing information, the creator is protected by the privacy settings.



# Summary

BeePro is an interesting project that has a friendly and growing community. The Smart Contract analysis reported no compiler error or critical issues. The contract Owner can access some admin functions that can not be used in a malicious way to disturb the users' transactions. There is also a limit of max 25% fees.



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# About Cyberscope

Cyberscope is a blockchain cybersecurity company that was founded with the vision to make web3.0 a safer place for investors and developers. Since its launch, it has worked with thousands of projects and is estimated to have secured tens of millions of investors' funds.

Cyberscope is one of the leading smart contract audit firms in the crypto space and has built a high-profile network of clients and partners.



The Cyberscope team

https://www.cyberscope.io