



# Smart Contract Audit

FOR

# BarbiePEPE

DATED : 6 May 23'



# AUDIT SUMMARY

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**Project name –** BarbiePEPE

**Date:** 6 May, 2023

**Scope of Audit-** Audit Ace was consulted to conduct the smart contract audit of the solidity source codes.

**Audit Status:** **Passed**

## Issues Found

| Status       | Critical | High | Medium | Low | Suggestion |
|--------------|----------|------|--------|-----|------------|
| Open         | 0        | 0    | 0      | 0   | 0          |
| Acknowledged | 0        | 0    | 0      | 0   | 0          |
| Resolved     | 0        | 0    | 0      | 0   | 0          |

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# USED TOOLS

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## Tools:

### 1- Manual Review:

A line by line code review has been performed by audit ace team.

**2- BSC Test Network:** All tests were conducted on the BSC Test network, and each test has a corresponding transaction attached to it. These tests can be found in the "Functional Tests" section of the report.

### 3- Slither :

The code has undergone static analysis using Slither.

### Testnet version:

The tests were performed using the contract deployed on the BSC Testnet, which can be found at the following address:

<https://testnet.bscscan.com/address/0x1a1040bf0a182aa4e85944d4b713361d8fef37a6#code>

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# Token Information

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**Token Name :** BarbiePEPE

**Token Symbol:** BPEPE

**Decimals:** 9

**Token Supply:** 1,000,000,000

**Token Address:**

0x55A02AD006CfaF71FEF8D825720A76DFA9fb82F6

**Checksum:**

80b4b14b6f2ec91de8765d5ba8fe52cf73411863

**Owner:**

0x00

(Renounced)

**Deployer:**

0xb66ea3B473B484a94a7A013C7B834805540E0A6  
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# TOKEN OVERVIEW

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## **Fees:**

Buy Fees: 0%

Sell Fees: 0%

Transfer Fees: 0%

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**Fees Privilege:** None

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**Ownership:** renounced

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**Minting:** No mint function

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**Max Tx Amount/ Max Wallet Amount:** No

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**Blacklist:** No

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**Other Privileges:** No

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# AUDIT METHODOLOGY

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The auditing process will follow a routine as special considerations by Auditace:

- Review of the specifications, sources, and instructions provided to Auditace to make sure the contract logic meets the intentions of the client without exposing the user's funds to risk.
  - Manual review of the entire codebase by our experts, which is the process of reading source code line-by-line in an attempt to identify potential vulnerabilities.
  - Specification comparison is the process of checking whether the code does what the specifications, sources, and instructions provided to Auditace describe.
  - Test coverage analysis determines whether the test cases are covering the code and how much code is exercised when we run the test cases.
  - Symbolic execution is analysing a program to determine what inputs cause each part of a program to execute.
  - Reviewing the codebase to improve maintainability, security, and control based on the established industry and academic practices.
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# VULNERABILITY CHECKLIST

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- |                                    |                               |
|------------------------------------|-------------------------------|
| ✓ Return values of low-level calls | ✓ Gasless Send                |
| ✓ Private modifier                 | ✓ Using block.timestamp       |
| ✓ Multiple Sends                   | ✓ Re-entrancy                 |
| ✓ Using Suicide                    | ✓ Tautology or contradiction  |
| ✓ Gas Limitand Loops               | ✓ Timestamp Dependence        |
| ✓ Address hardcoded                | ✓ Revert/require functions    |
| ✓ Exception Disorder               | ✓ Use of tx.origin            |
| ✓ Using inline assembly            | ✓ Integer overflow/underflow  |
| ✓ Divide before multiply           | ✓ Dangerous strict equalities |
| ✓ Missing Zero Address Validation  | ✓ Using SHA3                  |
| ✓ Compiler version not fixed       | ✓ Using throw                 |
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# CLASSIFICATION OF RISK

## Severity

## Description

|                                 |  |
|---------------------------------|--|
| ◆ Critical                      | These vulnerabilities could be exploited easily and can lead to asset loss, data loss, asset, or data manipulation. They should be fixed right away. |
| ◆ High-Risk                     | A vulnerability that affects the desired outcome when using a contract, or provides the opportunity to use a contract in an unintended way.          |
| ◆ Medium-Risk                   | A vulnerability that could affect the desired outcome of executing the contract in a specific scenario.  |
| ◆ Low-Risk                      | A vulnerability that does not have a significant impact on possible scenarios for the use of the contract and is probably subjective.                |
| ◆ Gas Optimization / Suggestion | A vulnerability that has an informational character but is not affecting any of the code.  |

## Findings

### Severity

### Found

|                                  |   |
|----------------------------------|---|
| ◆ Critical                       | 0 |
| ◆ High-Risk                      | 0 |
| ◆ Medium-Risk                    | 0 |
| ◆ Low-Risk                       | 0 |
| ◆ Gas Optimization / Suggestions | 0 |



# INHERITANCE TREE

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BarbiePepe

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# POINTS TO NOTE

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- Owner is not able to set buy/sell/transfer taxes (0% all)
  - Owner is not able to set a max buy/transfer/wallet/sell amount
  - Owner is not able to blacklist an arbitrary wallet
  - Owner is not able to disable trades
  - Owner is not able to mint new tokens
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# CONTRACT ASSESMENT

| Contract  | Type  | Bases          |                |               |  |
|---|---|----------------|----------------|---------------|--|
| -----: -----: -----: -----: -----:                      |   |                |                |               |  |
| └   | **Function Name**   | **Visibility** | **Mutability** | **Modifiers** |  |
| **BarbiePepe**   Implementation                         |   |                |                |               |  |
| └   | <Constructor>   | Public !       | ●              | NO !          |  |
| └   | balanceOf   | Public !       |                | NO !          |  |
| └   | transfer  | Public !       | ●              | NO !          |  |
| └   | transferFrom  | Public !       | ●              | NO !          |  |
| └   | approve   | Public !       | ●              | NO !          |  |
| └   | destroyTokens   | Public !       | ●              | NO !          |  |
| └   | renounceOwnership   | Public !       | ●              | NO !          |  |
|   |   |                |                |               |  |
| **IUniswapV2Router01**   Interface                      |   |                |                |               |  |
| └   | factory   | External !     |                | NO !          |  |
| └   | WETH  | External !     |                | NO !          |  |
| └   | addLiquidity  | External !     | ●              | NO !          |  |
| └   | addLiquidityETH   | External !     | 💰              | NO !          |  |
| └   | removeLiquidity   | External !     | ●              | NO !          |  |
| └   | removeLiquidityETH  | External !     | ●              | NO !          |  |
| └   | removeLiquidityWithPermit                                 | External !     | ●              | NO !          |  |
| └   | removeLiquidityETHWithPermit                              | External !     | ●              | NO !          |  |
| └   | swapExactTokensForTokens                                  | External !     | ●              | NO !          |  |
| └   | swapTokensForExactTokens                                  | External !     | ●              | NO !          |  |
| └   | swapExactETHForTokens                                     | External !     | 💰              | NO !          |  |
| └   | swapTokensForExactETH                                     | External !     | ●              | NO !          |  |
| └   | swapExactTokensForETH                                     | External !     | ●              | NO !          |  |
| └   | swapETHForExactTokens                                     | External !     | 💰              | NO !          |  |
| └   | quote   | External !     |                | NO !          |  |
| └   | getAmountOut  | External !     |                | NO !          |  |
| └   | getAmountIn   | External !     |                | NO !          |  |
| └   | getAmountsOut   | External !     |                | NO !          |  |
| └   | getAmountsIn  | External !     |                | NO !          |  |
|   |   |                |                |               |  |
| **IUniswapV2Router02**   Interface   IUniswapV2Router01 |   |                |                |               |  |
| └   | removeLiquidityETHSupportingFeeOnTransferTokens           | External !     | ●              | NO !          |  |
| └   | removeLiquidityETHWithPermitSupportingFeeOnTransferTokens | External !     | ●              | NO !          |  |
| └   | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External !     | ●              | NO !          |  |
| └   | swapExactETHForTokensSupportingFeeOnTransferTokens        | External !     | 💰              | NO !          |  |
| └   | swapExactTokensForETHSupportingFeeOnTransferTokens        | External !     | ●              | NO !          |  |
|   |   |                |                |               |  |
| **UniswapV2Caller**   Implementation                    |   |                |                |               |  |
| └   | swapExactTokensForTokensSupportingFeeOnTransferTokens     | External !     | ●              | NO !          |  |
| └   | swapExactTokensForTokens                                  | External !     | ●              | NO !          |  |

# CONTRACT ASSESMENT

```

|||||
| **ERC20** | Implementation | Context, IERC20, IERC20Metadata |||
|  | <Constructor> | Public ! | ● | NO ! |
|  | name | Public ! | | NO ! |
|  | symbol | Public ! | | NO ! |
|  | decimals | Public ! | | NO ! |
|  | totalSupply | Public ! | | NO ! |
|  | balanceOf | Public ! | | NO ! |
|  | transfer | Public ! | ● | NO ! |
|  | allowance | Public ! | | NO ! |
|  | approve | Public ! | ● | NO ! |
|  | transferFrom | Public ! | ● | NO ! |
|  | increaseAllowance | Public ! | ● | NO ! |
|  | decreaseAllowance | Public ! | ● | NO ! |
|  | _transfer | Internal 🔒 | ● | |
|  | _mint | Internal 🔒 | ● | |
|  | _burn | Internal 🔒 | ● | |
|  | _approve | Internal 🔒 | ● | |
|  | _spendAllowance | Internal 🔒 | ● | |
|  | _beforeTokenTransfer | Internal 🔒 | ● | |
|  | _afterTokenTransfer | Internal 🔒 | ● | |
|||||
| **IERC20** | Interface | |||
|  | totalSupply | External ! | | NO ! |
|  | balanceOf | External ! | | NO ! |
|  | transfer | External ! | ● | NO ! |
|  | allowance | External ! | | NO ! |
|  | approve | External ! | ● | NO ! |
|  | transferFrom | External ! | ● | NO ! |
|||||
| **IERC20Metadata** | Interface | IERC20 |||
|  | name | External ! | | NO ! |
|  | symbol | External ! | | NO ! |
|  | decimals | External ! | | NO ! |
|||||
| **Context** | Implementation | |||
|  | _msgSender | Internal 🔒 | | |
|  | _msgData | Internal 🔒 | | |

```

## Legend

| Symbol | Meaning                   |
|--------|---------------------------|
| ⚡      | Function can modify state |
| 💰      | Function is payable       |



# STATIC ANALYSIS

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```
BarbiePepe.totalSupply (contracts/Token.sol#26) is set pre-construction with a non-constant function or state variable:  
- numberOfCoins * 10 ** decimalls  
BarbiePepe.decimals (contracts/Token.sol#27) is set pre-construction with a non-constant function or state variable:  
- decimalls  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#function-initializing-state  
  
Pragma version^0.8.17 (contracts/Token.sol#7) necessitates a version too recent to be trusted. Consider deploying with 0.6.12/0.7.6/0.8.16  
solc-0.8.19 is not recommended for deployment  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#incorrect-versions-of-solidity  
  
BarbiePepe.slitherConstructorVariables() (contracts/Token.sol#9-90) uses literals with too many digits:  
- numberOfCoins = 1000000000 (contracts/Token.sol#16)  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#too-many-digits  
  
BarbiePepe.decimalls (contracts/Token.sol#17) should be constant  
BarbiePepe.name (contracts/Token.sol#13) should be constant  
BarbiePepe.numberOfCoins (contracts/Token.sol#16) should be constant  
BarbiePepe.symbol (contracts/Token.sol#14) should be constant  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-constant  
  
BarbiePepe.decimals (contracts/Token.sol#27) should be immutable  
Reference: https://github.com/crytic/slither/wiki/Detector-Documentation#state-variables-that-could-be-declared-immutable
```

**Result => A static analysis of contract's source code has been performed using slither,  
No major issues were found in the output**

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# FUNCTIONAL TESTING

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## Router (PCS V2):

0xD99D1c33F9fC3444f8101754aBC46c52416550D1

All the functionalities have been tested, no issues were found

### 1- Adding liquidity (passed):

<https://testnet.bscscan.com/tx/0x20d61dc0c214336c7dbe3fab7f793dc40f7169a72e543415d99740d8f6e7661a>

### 2- Buying when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0xbff1477580da02618d567d32ace81aeaddbd3f5f46f09dc9260b64f57bf25cfcd7>

### 3- Selling when excluded (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x3469bab8f6027b2ac3d47ed60fb233b3bcfc9c6c3755e2a567a99611a574ae66>

### 4- Transferring when excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x97923e55aec7982990e58a7732cbaf228c5fb9fe369368447935301f8e784ee4>

### 5- Buying when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x64073d8493bac01dfd0b339e09ca0c545ee86c15b2040c090db2a46c8592d880>

### 6- Selling when not excluded from fees (0% tax) (passed):

<https://testnet.bscscan.com/tx/0x4367193abe04670b6b3b7109171037c4344833a7ebf84f080f1ba9a8a8ed34fb>

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# FUNCTIONAL TESTING

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**7- Transferring when not excluded from fees (0% tax) (passed):**

<https://testnet.bscscan.com/tx/0xcda0ae42f9436f333160d2a7d6343308e14becf83f2202434856856224ead51c>

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# ABOUT AUDITACE

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