

Security Assessment: **Abraham Token**

December 31, 2023







- Audit Status: **Failed**
- Audit Edition: **Advance**
































Risk Analysis

Classifications of Manual Risk Results

Classification	Description
 Critical	Danger or Potential Problems.
 High	Be Careful or Fail test.
 Low	Pass, Not-Detected or Safe Item.
 Informational	Function Detected

Manual Code Review Risk Results

Contract Privilege	Description
 Buy Tax	0%
 Sale Tax	2.5%
 Cannot Sale	Pass
 Cannot Sale	Pass
 Max Tax	5%
 Modify Tax	Detected
 Fee Check	Pass
 Is Honeypot?	Not detected
 Trading Cooldown	Not Detected
 Can Pause Trade?	Pass
 Pause Transfer?	Not Detected
 Max Tx?	Pass
 Is Anti Whale?	Not Detected
 Is Anti Bot?	Not Detected

Contract Privilege	Description
 Is Blacklist?	Not Detected
 Blacklist Check	Pass
 is Whitelist?	Not-Detected
 Can Mint?	Pass
 Is Proxy?	Not Detected
 Can Take Ownership?	Not detected
 Hidden Owner?	Not detected
 Owner	0x9469eCCf464b7B341aDFFE0DF80272cC61169811
 Self Destruct?	Not Detected
 External Call?	Not detected
 Other?	Not detected
 Holders	2
 Auditor Confidence	Low
 KYC Present	No
 KYC URL	

The following quick summary it's added to the project overview; however, there are more details about the audit and its results. Please read every detail.

Project Overview

Token Summary

Parameter	Result
Address	0x
Name	Abraham
Token Tracker	Abraham (\$ABRA)
Decimals	18
Supply	100,000,000
Platform	BNBCHAIN
compiler	v0.8.23+commit.f704f362
Contract Name	Token
Optimization	Yes with 200 runs
LicenseType	MIT
Language	Solidity
Codebase	https://etherscan.io/address/0x#code
Payment Tx	Corporate

Main Contract Assessed Contract Name

Name	Contract	Live
Abraham	0x	No

TestNet Contract Assessed Contract Name

Name	Contract	Live
Abraham	0xE6E63EDf168B929769ab2FD9960534BDfE7b7DAE	No

Solidity Code Provided

SolidID	File Sha-1	FileName
ABRA	6f29547d1ee4a59a4c941dfc5f8cb6399843ea47	Token.sol
ABRA	9ffd87d98bc7f418816c38613fc765a3757d132b	IPancakeV2Factory.sol
ABRA	299d1b67507a0c3617dd9e7b61839c7ced367e1e	IPancakeV2Pair.sol
ABRA	9be1b1ec9d5debc1287f17a38cfed4bbf5b75c61	IPancakeV2Router01.sol
ABRA	1b94d23267785c253694e351cb7ba6f83f2798c2	IPancakeV2Router02.sol
ABRA		

Smart Contract Vulnerability Checks

The Smart Contract Weakness Classification Registry (SWC Registry) is an implementation of the weakness classification scheme proposed in EIP-1470. It is loosely aligned to the terminologies and structure used in the Common Weakness Enumeration (CWE) while overlaying a wide range of weakness variants that are specific to smart contracts.

ID	Severity	Name	File	location
SWC-100	Pass	Function Default Visibility	Token.sol	L: 0 C: 0
SWC-101	Pass	Integer Overflow and Underflow.	Token.sol	L: 0 C: 0
SWC-102	Pass	Outdated Compiler Version file.	Token.sol	L: 0 C: 0
SWC-103	Low	A floating pragma is set.	Token.sol	L: 2 C: 0
SWC-104	Pass	Unchecked Call Return Value.	Token.sol	L: 0 C: 0
SWC-105	Pass	Unprotected Ether Withdrawal.	Token.sol	L: 0 C: 0
SWC-106	Pass	Unprotected SELFDESTRUCT Instruction	Token.sol	L: 0 C: 0
SWC-107	Pass	Read of persistent state following external call.	Token.sol	L: 0 C: 0
SWC-108	Pass	State variable visibility is not set..	Token.sol	L: 0 C: 0
SWC-109	Pass	Uninitialized Storage Pointer.	Token.sol	L: 0 C: 0
SWC-110	Pass	Assert Violation.	Token.sol	L: 0 C: 0
SWC-111	Pass	Use of Deprecated Solidity Functions.	Token.sol	L: 0 C: 0
SWC-112	Pass	Delegate Call to Untrusted Callee.	Token.sol	L: 0 C: 0
SWC-113	Pass	Multiple calls are executed in the same transaction.	Token.sol	L: 0 C: 0
SWC-114	Pass	Transaction Order Dependence.	Token.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-115	Pass	Authorization through tx.origin.	Token.sol	L: 0 C: 0
SWC-116	Pass	A control flow decision is made based on The block.timestamp environment variable.	Token.sol	L: 0 C: 0
SWC-117	Pass	Signature Malleability.	Token.sol	L: 0 C: 0
SWC-118	Pass	Incorrect Constructor Name.	Token.sol	L: 0 C: 0
SWC-119	Pass	Shadowing State Variables.	Token.sol	L: 0 C: 0
SWC-120	Pass	Potential use of block.number as source of randomness.	Token.sol	L: 0 C: 0
SWC-121	Pass	Missing Protection against Signature Replay Attacks.	Token.sol	L: 0 C: 0
SWC-122	Pass	Lack of Proper Signature Verification.	Token.sol	L: 0 C: 0
SWC-123	Pass	Requirement Violation.	Token.sol	L: 0 C: 0
SWC-124	Pass	Write to Arbitrary Storage Location.	Token.sol	L: 0 C: 0
SWC-125	Pass	Incorrect Inheritance Order.	Token.sol	L: 0 C: 0
SWC-126	Pass	Insufficient Gas Griefing.	Token.sol	L: 0 C: 0
SWC-127	Pass	Arbitrary Jump with Function Type Variable.	Token.sol	L: 0 C: 0
SWC-128	Pass	DoS With Block Gas Limit.	Token.sol	L: 0 C: 0
SWC-129	Pass	Typographical Error.	Token.sol	L: 0 C: 0
SWC-130	Pass	Right-To-Left-Override control character (U+202E).	Token.sol	L: 0 C: 0
SWC-131	Pass	Presence of unused variables.	Token.sol	L: 0 C: 0
SWC-132	Pass	Unexpected Ether balance.	Token.sol	L: 0 C: 0

ID	Severity	Name	File	location
SWC-133	Pass	Hash Collisions with Multiple Variable Length Arguments.	Token.sol	L: 0 C: 0
SWC-134	Pass	Message call with hardcoded gas amount.	Token.sol	L: 0 C: 0
SWC-135	Pass	Code With No Effects (Irrelevant/Dead Code).	Token.sol	L: 0 C: 0
SWC-136	Pass	Unencrypted Private Data On-Chain.	Token.sol	L: 0 C: 0

We scan the contract for additional security issues using MYTHX and industry-standard security scanning tools.

Smart Contract Vulnerability Details

SWC-103 - Floating Pragma.

CWE-664: Improper Control of a Resource Through its Lifetime.

References:

Description:

Contracts should be deployed with the same compiler version and flags that they have been tested with thoroughly. Locking the pragma helps to ensure that contracts do not accidentally get deployed using, for example, an outdated compiler version that might introduce bugs that affect the contract system negatively.

Remediation:

Lock the pragma version and also consider known bugs (<https://github.com/ethereum/solidity/releases>) for the compiler version that is chosen.

Pragma statements can be allowed to float when a contract is intended for consumption by other developers, as in the case with contracts in a library or EthPM package. Otherwise, the developer would need to manually update the pragma in order to compile locally.

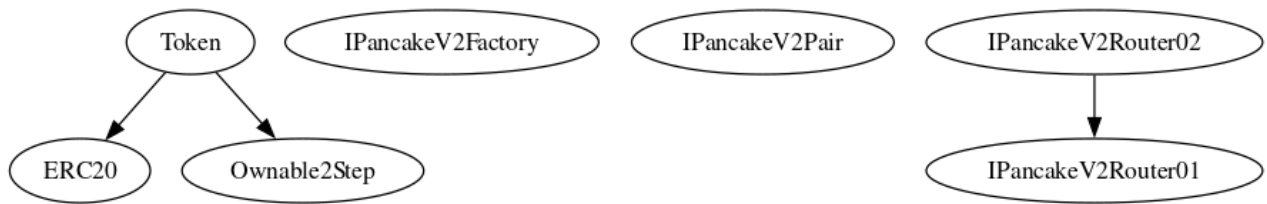
References:

Ethereum Smart Contract Best Practices - Lock pragmas to specific compiler version.

Inheritance

The contract for Abraham has the following inheritance structure.

The Project has a Total Supply of 100,000,000





Privileged Functions (onlyOwner)

Please Note if the contract is Renounced none of this functions can be executed.

Function Name	Parameters	Visibility
setTreasury		external
setSellFee		external
setAutomatedMarketMaker		external

\$ABRA-02 | Function Visibility Optimization.

Category	Severity	Location	Status
Gas Optimization	 Informational	Token.sol: L: 75 C: 47,L: 81 C: 47,L: 87 C: 47	 Detected

Description

The following functions are declared as public and are not invoked in any of the contracts contained within the projects scope:

Function Name	Parameters	Visibility
setAutomatedMarketMaker		public
setSellFee		public
setTreasury		public

The functions that are never called internally within the contract should have external visibility



Remediation

We advise that the function's visibility specifiers are set to external, and the array-based arguments change their data location from memory to calldata, optimizing the gas cost of the function.

References:

external vs public best practices.

\$ABRA-11 | TRANSFER_FROM_FAILED during addLiquidity..

Category	Severity	Location	Status
Optimization	 Critical	Token.sol: L: 51 C: 47	 Detected

Description

TRANSFER_FROM_FAILED during AddLiquidity, this is due to the contract not excluding the owner wallet from fee or having the ability to exclude wallets. The contract cant also set fees to 0 and is unable to transfer tokens without tax.






Remediation

Recommended to exclude owner wallet from fee or allow the contract to set fees to 0.






Project Action

Technical Findings Summary

Classification of Risk

Severity	Description
 Critical	Risks are those that impact the safe functioning of a platform and must be addressed before launch. Users should not invest in any project with outstanding critical risks.
 High	Risks can include centralization issues and logical errors. Under specific circumstances, these major risks can lead to loss of funds and/or control of the project.
 Medium	Risks may not pose a direct risk to users' funds, but they can affect the overall functioning of a platform
 Low	Risks can be any of the above but on a smaller scale. They generally do not compromise the overall integrity of the Project, but they may be less efficient than other solutions.
 Informational	Errors are often recommended to improve the code's style or certain operations to fall within industry best practices. They usually do not affect the overall functioning of the code.

Findings

Severity	Found	Pending	Resolved
 Critical	1	1	0
 High	0	0	0
 Medium	0	0	0
 Low	0	0	0
 Informational	1	1	0
Total	2	2	0

Social Media Checks

Social Media	URL	Result
Twitter	https://twitter.com/AbrahamElite33	Pass
Other	https://www.youtube.com/@AbrahamElite33	Pass
Website	https://abrahamelite.com	Pass
Telegram	https://t.me/AbrahmElite	Pass

We recommend to have 3 or more social media sources including a completed working websites.

Social Media Information Notes:

Auditor Notes: undefined

Project Owner Notes:



Audit Result

Final Audit Score

Review	Score
Security Score	0
Auditor Score	0

The Following Score System Has been Added to this page to help understand the value of the audit, the maximum score is 100, however to attain that value the project must pass and provide all the data needed for the assessment. Our Passing Score has been changed to 85 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below.

Audit Fail



Assessment Results

Important Notes:

- No vulnerabilities or exploits were detected at the time of the audit.
- Errors Adding Liquidity, failed the audit since it will not be tradable.
- The latest code doesn't address the need for an exclude function, therefore owner can't add liquidity to the exchange.
- There is a market maker function, however we are unable to create the pair and define it.

Auditor Score =0
Audit Passed



Appendix

Finding Categories

Centralization / Privilege

Centralization / Privilege findings refer to either feature logic or implementation of components that act against the nature of decentralization, such as explicit ownership or specialized access roles in combination with a mechanism to relocate funds.

Gas Optimization

Gas Optimization findings do not affect the functionality of the code but generate different, more optimal EVM opcodes resulting in a reduction on the total gas cost of a transaction.

Logical Issue

Logical Issue findings detail a fault in the logic of the linked code, such as an incorrect notion on how `block.timestamp` works.

Control Flow

Control Flow findings concern the access control imposed on functions, such as owner-only functions being invoke-able by anyone under certain circumstances.

Volatile Code

Volatile Code findings refer to segments of code that behave unexpectedly on certain edge cases that may result in a vulnerability.

Coding Style

Coding Style findings usually do not affect the generated byte-code but rather comment on how to make the codebase more legible and, as a result, easily maintainable.

Inconsistency

Inconsistency findings refer to functions that should seemingly behave similarly yet contain different code, such as a constructor assignment imposing different requirements on the input variables than a setter function.

Coding Best Practices

ERC 20 Coding Standards are a set of rules that each developer should follow to ensure the code meets a set of criteria and is readable by all the developers.

Disclaimer

Assure Defi has conducted an independent security assessment to verify the integrity of and highlight any vulnerabilities or errors, intentional or unintentional, that may be present in the reviewed code for the scope of this assessment. This report does not constitute agreement, acceptance, or advocacy for the Project, and users relying on this report should not consider this as having any merit for financial advice in any shape, form, or nature. The contracts audited do not account for any economic developments that the Project in question may pursue, and the veracity of the findings thus presented in this report relate solely to the proficiency, competence, aptitude, and discretion of our independent auditors, who make no guarantees nor assurance that the contracts are entirely free of exploits, bugs, vulnerabilities or deprecation of technologies.

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