



# SMART CONTRACT AUDIT

Capitalize on the expertise of our smart contract auditors to launch highly secure blockchain applications.

## ATH PROTOCOL

 SMART CONTRACT  
 AUDIT



@AuditDefi

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# 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 below 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:

AuditDefi was commissioned by ATH PROTOCOL to perform an audit of smart contracts:  
ATHPROTOCOL.sol

The purpose of the audit was to achieve the following:

- Ensure that the smart contract functions as intended.
- Identify potential security issues with the smart contract.

The information in this report should be used to understand the risk exposure of the smart contract, and as a guide to improve the security posture of the smart contract by remediating the issues that were identified

## AUDIT DETAILS:

Contract name	ATHPROTOCOL
Token ticker	ATH
Contract address	0xE430E7D7688a52e53B9e9291a75fa3Ac3d2d1cDb
Total supply	1,000,000
Decimals	5
Language	SOLIDITY
Blockchain	Binance smart chain
Compiler	v0.7.4+commit.3f05b770
Website	<a href="https://athprotocol.io">https://athprotocol.io</a>
Twitter	<a href="https://twitter.com/athprotocol_io">https://twitter.com/athprotocol_io</a>
Telegram	<a href="https://t.me/athprotocol_io">https://t.me/athprotocol_io</a>

## PROJECT OVERVIEW:

The synopsis: Leveraging decentralised finance with a systematic protocol, the AP (AllTimeHigh protocol) issues a BEP-20 native token working to constant reward holders with a sustainable compound interest via the protocol's auto-staking attribute and featured auto-compounding.

Top-high staking APY with relatively swift payment: Rewarding holders with a sustainable constant annual percentage yield (APY) of 499,997.79%, auto compounding interest every 15 minutes, 96 times daily.

### Features:

- A unique defi protocol offering auto-staking with a fixed 499,997.99% APY, featured auto-compounding & permission-less decentralized utilities
- High fixed APY offering 499,997.99%
- Auto-compounding 0.02431% interest paid every 15 minutes
- Fully decentralised passed smart contract with APF
- Permission-less decentralised market with LP yield-farming
- Unique ATH NFTs and P2E
- Black-hole deflationary mechanism
- BUY-HOLD-EARN

### Tokenomics:

Allocation	Buy tax (14%)	Sell tax (16%)
LP	4%	4%
APF	5%	5%
Treasury	2.5%	4.5%
Black Hole	2.5%	2.5%

# ROADMAP



## ISSUE CHECKING STATUS

No	Issue description.	Checking status
1	Compiler warnings.	Passed
2	Race conditions and Reentrancy. Cross-function race conditions.	Passed
3	Possible delays in data delivery.	Passed
4	Oracle calls.	Passed
5	Front running.	Passed
6	Timestamp dependence.	Passed
7	Integer Overflow and Underflow.	Passed
8	DoS with Revert.	Passed
9	DoS with block gas limit.	Low
10	Methods execution permissions.	Passed
11	Economy model.	Passed
12	The impact of the exchange rate on the logic.	Passed
13	Private user data leaks.	Passed
14	Malicious Event log.	Passed
15	Scoping and Declarations.	Passed
16	Uninitialized storage pointers.	Passed
17	Arithmetic accuracy.	Passed
18	Design Logic.	Passed
19	Cross-function race conditions.	Passed
20	Safe Zeppelin module.	Passed
21	Fallback function security.	Passed



# SMART CONTRACT - SWC ATTACKS

SWC ID	Description	Verdict
SWC-101	Integer Overflow and Underflow	Passed
SWC-102	Outdated Compiler Version !	Passed
SWC-103	Floating Pragma	Passed
SWC-104	Unchecked Call Return Value	Passed
SWC-105	Unprotected Ether Withdrawal	Passed
SWC-106	Unprotected SELFDESTRUCT Instruction	Passed
SWC-107	Re-entrancy	!Low
SWC-108	State Variable Default Visibility	Passed
SWC-109	Uninitialized Storage Pointer	Passed
SWC-110	Assert Violation	Passed
SWC-111	Use of Deprecated Solidity Functions	Passed
SWC-112	Delegate Call to Untrusted Callee	Passed
SWC-113	DoS with Failed Call	Passed
SWC-114	Transaction Order Dependence	Passed
SWC-115	Authorization through tx.origin	Passed
SWC-116	Block values as a proxy for time	Passed
SWC-117	Signature Malleability	Passed
SWC-118	Incorrect Constructor Name	Passed
SWC-119	Shadowing State Variables	Passed
SWC-120	Weak Sources of Randomness from Chain Attributes	Passed
SWC-121	Missing Protection against Signature Replay Attacks	Passed
SWC-122	Lack of Proper Signature Verification	Passed
SWC-123	Requirement Violation	Passed
SWC-124	Write to Arbitrary Storage Location	Passed
SWC-125	Incorrect Inheritance Order	Passed
SWC-126	Insufficient Gas Griefing	Passed
SWC-127	Arbitrary Jump with Function Type Variable	Passed
SWC-128	DoS With Block Gas Limit	Passed
SWC-129	Typographical Error	Passed
SWC-130	Right-To-Left-Override control character (U+202E)	Passed
SWC-131	Presence of unused variables	Passed
SWC-132	Unexpected Ether balance	Passed
SWC-133	Hash Collisions With Multiple Variable Length Arguments	Passed
SWC-134	Message call with hardcoded gas amount	Passed
SWC-135	Code With No Effects (Irrelevant/Dead Code) !	Passed
SWC-136	Unencrypted Private Data On-Chain	Passed

# SMART CONTRACT - RISK STATUS

## Risk Severity

! Critical

! High

! Medium

! Low

Passed

## Status

None critical severity issues identified

None high severity issues identified

None medium severity issues identified

1 low severity issue identified

35 functions and instances verified and passed

# OWNER PRIVILEGES

1. approve

2. decreaseAllowance

3. increaseAllowance

4. manualSync

5. renounceOwnership

6. setAutoAddLiquidity

7. setAutoRebase

8. setBotBlacklist

9. setFeeReceivers

10. setLP

11. setPairAddress

12. setWhitelist

13. startRebase

14. transfer

15. transferFrom

16. transferOwnership

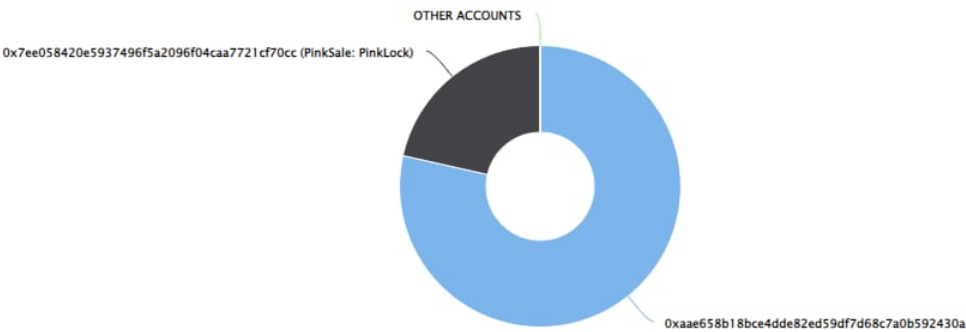
17. withdrawAllToTreasury

# TOP TOKEN HOLDERS

At the time of the audit

ATH PROTOCOL Top 100 Token Holders

Source: BscScan.com



(A total of 1,000,000.00 tokens held by the top 100 accounts from the total supply of 1,000,000.00 token)

Rank	Address	Quantity (Token)	Percentage
1	0xaae658b18bce4dde82ed59df7d68c7a0b592430a	785,000	78.5000%
2	PinkSale: PinkLock	215,000	21.5000%

# CONCLUSION

ATHPROTOCOL does not contain any severe issues.

21.5% OF THE TOTAL SUPPLY IS LOCKED

1% OF THE TOTAL SUPPLY IS LOCKED

## Lock info

Total Amount Locked	215,000 ATH
Total Value Locked	\$0
Token Address	<a href="#">0xE430E7D7688a52e5389e9291a75fa3Ac3d2d1cDb</a>
Token Name	ATH PROTOCOL
Token Symbol	ATH
Token Decimals	5

## Lock records

Wallet address	Amount	Unlock time	
<a href="#">0x3758...8592</a>	65,000	2022.10.17 09:05 UTC	<a href="#">View</a>
<a href="#">0x3758...8592</a>	50,000	2023.01.09 08:00 UTC	<a href="#">View</a>
<a href="#">0x3758...8592</a>	50,000	2023.02.06 08:00 UTC	<a href="#">View</a>
<a href="#">0x3758...8592</a>	50,000	2024.04.30 09:00 UTC	<a href="#">View</a>



## AuditDefi note:

Please check the disclaimer above and note, the audit makes no statements or warranties on business model, investment attractiveness or code sustainability. The report is provided

for the only contract mentioned in the report and does not include any other potential contracts deployed by Owner