



# SAFUAUDIT

SMART CONTRACT AUDITING

# PLEXOR

## SMART CONTRACT AUDIT



February 22, 2022

# INTRODUCTION

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<b>Client</b>	PLEXOR
<b>Language</b>	Solidity
<b>Contract address</b>	0x45c3966Cb6788ce9cc96218aE73B394398c1B9d5
<b>Website</b>	<a href="https://www.plexorbsc.com/">https://www.plexorbsc.com/</a>
<b>Telegram</b>	N/A
<b>Twitter</b>	<a href="https://twitter.com/PlexorBSC">https://twitter.com/PlexorBSC</a>

## Description

Plexor (PLX) is a BEP-20 automatic deployment token that rewards holders with SafeMoon reflections.

The token is based on a Dividend-Paying Token Standard, which means all SafeMoon gains will be split equally proportionally to the token holders.

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# Approach

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## Audit Details

Our comprehensive audit report provides a full overview of the audited system's architecture, smart contract codebase, and details on any vulnerabilities found within the system.

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## Audit Goals

The audit goal is to ensure that the project is built to protect investors and users, preventing potentially catastrophic vulnerabilities after launch, that lead to scams and rugpulls.

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## Code Quality

Our analysis includes both automatic tests and manual code analysis for the following aspects:

- Exploits
  - Back-doors
  - Vulnerability
  - Accuracy
  - Readability
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## Tools

- Remix IDE
- MythX, Myhrlil
- SWC Registry
- Open Zeppelin Code Analyzer
- Solidity Code Complier

# RISK CLASSIFICATION

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## CRITICAL

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## MEDIUM

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Issues on this level could potentially bring problems and should eventually be fixed.

## MINOR

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Issues on this level are minor details and warning that can remain unfixed but would be better fixed at some point in the future

## INFORMATIONAL

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.

# ABSTRACT

Fees	Ownership	Mint function
Buy Fees: 15% Sell Fees: 15%	Owned	No mint function found
Owner can set fees  Contract owner can set buy & sell fees up to 25%	Max Tx amount  Owner can't set max tx amount	Pause  Owner can't pause trading

# SWC Attacks

SWC ID	Description	
<b>SWC-100</b>	Function Default Visibility	<b>Passed</b>
<b>SWC-101</b>	Integer Overflow and Underflow	<b>Passed</b>
<b>SWC-102</b>	Outdated Compiler Version	<b>Passed</b>
<b>SWC-103</b>	FloatingPragma	<b>Passed</b>
<b>SWC-104</b>	Unchecked Call Return Value	<b>Passed</b>
<b>SWC-105</b>	Unprotected Ether Withdrawal	<b>Passed</b>
<b>SWC-106</b>	Unprotected SELF-DESTRUCT Instruction	<b>Passed</b>
<b>SWC-107</b>	Re-entrancy	<b>Passed</b>
<b>SWC-108</b>	State Variable Default Visibility	<b>Passed</b>
<b>SWC-109</b>	Uninitialized Storage Pointer	<b>Passed</b>
<b>SWC-110</b>	Assert Violation	<b>Passed</b>
<b>SWC-111</b>	Use of Deprecated Solidity Functions	<b>Passed</b>
<b>SWC-112</b>	Delegate Call to Untrusted Callee	<b>Passed</b>
<b>SWC-113</b>	DoS with Failed Call	<b>Passed</b>
<b>SWC-114</b>	Transaction Order Dependence	<b>Passed</b>
<b>SWC-115</b>	Authorization through tx.origin	<b>Low</b>

<b>SWC-116</b>	Block values as a proxy for time	<b>Passed</b>
<b>SWC-117</b>	Signature Malleability	<b>Passed</b>
<b>SWC-118</b>	Incorrect Constructor Name	<b>Passed</b>
<b>SWC-119</b>	Shadowing State Variables	<b>Passed</b>
<b>SWC-120</b>	Weak Sources of Randomness from Chain Attributes	<b>Passed</b>
<b>SWC-121</b>	Missing Protection against Signature Replay Attacks	<b>Passed</b>
<b>SWC-122</b>	Lack of Proper Signature Verification	<b>Passed</b>
<b>SWC-123</b>	Requirement Violation	<b>Passed</b>
<b>SWC-124</b>	Write to Arbitrary Storage Location	<b>Passed</b>
<b>SWC-125</b>	Incorrect Inheritance Order	<b>Passed</b>
<b>SWC-126</b>	Insufficient Gas Griefing	<b>Passed</b>
<b>SWC-127</b>	Arbitrary Jump with Function Type Variable	<b>Passed</b>
<b>SWC-128</b>	DoS With Block Gas Limit	<b>Passed</b>
<b>SWC-129</b>	Typographical Error	<b>Passed</b>
<b>SWC-130</b>	Right-To-Left-Override control character (U+202E)	<b>Passed</b>
<b>SWC-131</b>	Presence of unused variables	<b>Passed</b>
<b>SWC-132</b>	Unexpected Ether balance	<b>Passed</b>
<b>SWC-133</b>	Hash Collisions With Multiple Variable Length Arguments	<b>Passed</b>
<b>SWC-134</b>	Message call with the hardcoded gas amount	<b>Passed</b>
<b>SWC-135</b>	Code With No Effects (Irrelevant/Dead Code)	<b>Passed</b>
<b>SWC-136</b>	Unencrypted Private Data On-Chain	<b>Passed</b>

# MANUAL ANALYSIS

The contract is verified to check if functions do and work as they should and malicious code is not inserted.

	Tested	Result
<b>Transfer</b>	Yes	<b>Passed</b>
<b>Total Supply</b>	Yes	<b>Passed</b>
<b>Buy Back</b>	Yes	<b>N/A</b>
<b>Burn</b>	Yes	<b>Passed</b>
<b>Mint</b>	Yes	<b>N/A</b>
<b>Rebase</b>	Yes	<b>N/A</b>
<b>Pause</b>	Yes	<b>N/A</b>
<b>Blacklist</b>	Yes	<b>N/A</b>
<b>Lock</b>	Yes	<b>N/A</b>
<b>Max Transaction</b>	Yes	<b>N/A</b>
<b>Transfer Ownership</b>	Yes	<b>Passed</b>
<b>Renounce Ownership</b>	Yes	<b>Passed</b>

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# Important snippets



## Owner can exclude from fees

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

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

## Owner can set fees up to 25%

```
function setLiquidityFee(uint256 value) external onlyOwner {
    liquidityFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}

function setMarketingFee(uint256 value) external onlyOwner {
    marketingFee = value;
    totalFees = tokenRewardsFee.add(liquidityFee).add(marketingFee);
    require(totalFees <= 25, "Total fee is over 25%");
}
```



<b>Website</b>	<a href="https://www.plexorbsc.com/">https://www.plexorbsc.com/</a>
<b>Domain Registry</b>	<a href="http://www.wix.com">http://www.wix.com</a>
<b>Domain Expiry Date</b>	2023-01-12
<b>Response Code</b>	200
<b>SSL Checker and HTTPS Test</b>	Passed
<b>Deprecated HTML tags</b>	Passed
<b>Robots.txt</b>	Passed
<b>Sitemap Test</b>	Passed
<b>SEO Friendly URL</b>	Passed
<b>Responsive Test</b>	Medium
<b>JS Error Test</b>	Passed
<b>Console Errors Test</b>	Low - warnings
<b>Site Loading Speed Test</b>	2.48 seconds - Passed
<b>HTTP2 Test</b>	Passed
<b>Safe Browsing Test</b>	Passed

# DISCLAIMER

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SafuAudit.com is not a financial institution and the information provided on this website does not constitute investment advice, financial advice, trading advice or any other sort of advice. You should not treat any of the website's content as such. Investing in crypto assets carries a high level of risk and does not hold guarantees for not sustaining financial loss due to their volatility.

## Accuracy of Information

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The purpose of the audit is to analyse the on-chain smart contract source code, and to provide basic overview of the project.

While we have used all the information available to us for this straightforward investigation, you should not rely on this report only – we recommend proceeding with several independent audits. Be aware that smart contracts deployed on a blockchain aren't secured enough against external vulnerability, or a hack. Be aware that active smart contract owner privileges constitute an elevated impact to smart contract's safety and security. Therefore, SafuAudit does not guarantee the explicit security of the audited smart contract. 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.

# AUDIT RESULTS

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## CRITICAL

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No critical severity issues have been found.

## MEDIUM

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No medium severity issues have been found.

## MINOR

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No minor severity critical issues have been found.

## INFORMATIONAL

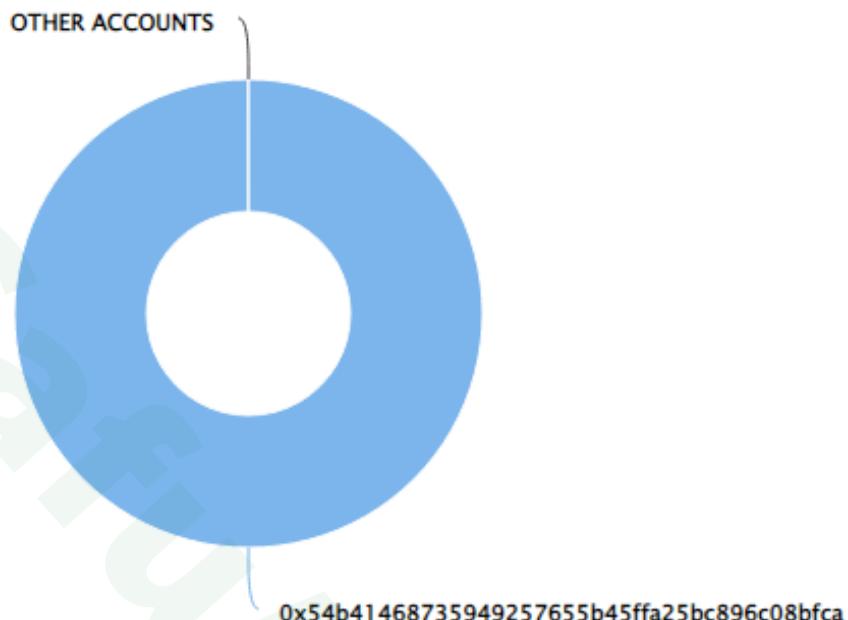
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The standard audit model does not offer suggestions and consulting for improvements of efficacy.

# SUMMARY

## PLEXOR Top 100 Token Holders

Source: BscScan.com



Rank	Address	Quantity (Token)	Percentage
1	<a href="#">0x54b41468735949257655b45ffa25bc896c08bfca</a>	1,000,000,000,000	100.0000%

## Conclusion

Project PLEXOR does not contain any severe issues or risk characteristics.  
SafuAudit has tested the security based on manual and automated tests.  
Please note that we don't offer any warranties for business model.