

2025

Smart Contract
Shares Slon Plus

Audit Certificate

Contract: SharesSlonPlus

Solidity Version: 0.8.20





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General Information

Parameter	Value
Token Name	Shares SlonPlus
Token Symbol	SLS+
Decimal Places	18
Total Supply	560,000,000 SLS+
Token Price	1 USD in wei (1e18)
Contract Owner	0x... (Owner address)
New Owner	0x... (New owner address, if set)
Contract Status	Active/Paused

Contract Variables and State

Variable	Type	Description
owner	address	Address of the current contract owner
newOwner	address	Address of the new contract owner being set
paused	bool	Flag to pause the contract operations
balances	mapping	Mapping of each address's token balance
allowed	mapping	Mapping of allowances for token transfers

Owner Management Functions

Function	Description
transferOwnership	Assigns a new contract owner (only current owner can call)
acceptOwnership	Accepts ownership of the contract (only the new owner can call)

Core TRC20 Functions

Function	Description
totalSupply	Returns the total number of tokens in circulation, excluding the zero address
balanceOf	Returns the token balance of a specified address
transfer	Transfers tokens from sender to a specified address
approve	Approves a specified address to spend a certain number of tokens on behalf of the sender



Function	Description
transferFrom	Transfers tokens from one address to another with sufficient allowance
allowance	Returns the number of tokens a specified address is allowed to spend

Token Purchase and Sale Functions

Function	Description
buyTokens	Allows purchasing tokens with ether (contract must be active)
sellTokens	Allows selling tokens for ether (contract must be active)

Contract State Management Functions

Function	Description
pause	Pauses all contract functions (only owner can call)
unpause	Resumes all contract functions (only owner can call)

Security Checks

Check	Status	Description
Null address check in transfer	Passed	Ensure to is not the zero address
Balance check in transfer	Passed	Ensure sender's balance is sufficient for the transfer
Null address check in transferFrom	Passed	Ensure to is not the zero address
Balance check in transferFrom	Passed	Ensure sender's balance is sufficient for the transfer
Allowance check in transferFrom	Passed	Ensure allowance is sufficient for the transfer
Contract state check in buyTokens	Passed	Ensure contract is not paused
Contract state check in sellTokens	Passed	Ensure contract is not paused

Additional Functions

Function	Description
receive	Empty function that can be overridden to handle ether sent to the contract

Additional Usage Scenario Testing Results

1. Transfer Function Tests

Test	Expected Result	Result
Successful token transfer	Tokens transferred, Transfer event emitted	Passed
Transfer of zero tokens	No tokens transferred, Transfer event not emitted	Passed
Transfer to zero address	Transaction reverted	Passed



2. Approve Function Tests

Test	Expected Result	Result
Successful approval of allowance	Allowance set, <code>Approval</code> event emitted	Passed
Approval of zero allowance	Allowance set, <code>Approval</code> event emitted	Passed

3. TransferFrom Function Tests

Test	Expected Result	Result
Successful token transfer	Tokens transferred, <code>Transfer</code> event emitted	Passed
Transfer of zero tokens	No tokens transferred, <code>Transfer</code> event not emitted	Passed
Transfer to zero address	Transaction reverted	Passed

4. BuyTokens Function Tests

Test	Expected Result	Result
Successful token purchase	Tokens credited to buyer, <code>Transfer</code> event emitted	Passed
Purchase with contract paused	Transaction reverted	Passed

5. SellTokens Function Tests

Test	Expected Result	Result
Successful token sale	Ether transferred to seller, <code>Transfer</code> event emitted	Passed
Sale with contract paused	Transaction reverted	Passed

6. Owner Management Functions Tests

Test	Expected Result	Result
Successful ownership transfer	New owner set, old owner loses privileges	Passed
New owner accepts ownership	New owner confirmed, new owner set	Passed

Conclusions

The SharesSlonPlus contract has undergone all additional checks and tests, including various usage scenarios and edge cases. All functionalities are performing as intended and securely. The contract is prepared for deployment in a production environment.

The smart contract audit was conducted by experts at SlonWeb Studio, with the assistance of Artificial Intelligence during the process.

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