

Security Audit

Name: Diamond Hand Degens

Date: 04/20/2021

Contract: <https://bscscan.com/address/0xA98e8103285C4B7268Ef93c63BC2232cBA39fAFd>

<https://lemonsec.com>

Lemon
Sec

Issues Checking Status

Compiler Errors: **PASSED**

Race conditions: **PASSED**

Possible delays in data delivery: **PASSED**

Oracle calls: **PASSED**

Front running: **PASSED**

Timestamp dependence: **PASSED**

Integer Overflow and Underflow: **PASSED**

DoS with Revert: **PASSED**

Economy model of the contract: **PASSED**

Methods execution permissions: **PASSED**

DoS with block gas limit: **2 LOW ISSUES**

The impact of the exchange rate on the logic: **PASSED**

Private user data leaks: **PASSED**

Malicious Event log: **PASSED**

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Malicious Event log: **PASSED**

Issues Checking Status

Scoping and Declarations: **PASSED**

Uninitialized storage pointers: **PASSED**

Arithmetic accuracy: **PASSED**

Design Logic: **PASSED**

Cross-function race conditions: **PASSED**

Fallback function security: **PASSED**

Security Issues

Critical Severity Issues: 0

High Severity Issues: 0

Medium Severity Issues: 0

Low Severity Issues: 2

The function **includeInReward()** uses the loop to find and remove addresses from the **_isExcluded** list. Function will be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function includeInReward(address account) external onlyOwner() {
    require(_isExcluded[account], "Account is already excluded");
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (_excluded[i] == account) {
            _excluded[i] = _excluded[_excluded.length - 1];
            _tOwned[account] = 0;
            _isExcluded[account] = false;
            _excluded.pop();
            break;
        }
    }
}
```

You, 30 minutes ago • Uncommitted changes

Security Issues

The function `_getCurrentSupply` also uses the loop for evaluating total supply. It also could be aborted with OUT_OF_GAS exception if there will be a long excluded addresses list.

```
function _getCurrentSupply() private view returns (uint256, uint256) {
    uint256 rSupply = _rTotal;
    uint256 tSupply = _tTotal;
    for (uint256 i = 0; i < _excluded.length; i++) {
        if (
            _rOwned[_excluded[i]] > rSupply ||
            _tOwned[_excluded[i]] > tSupply
        ) return (_rTotal, _tTotal);
        rSupply = rSupply.sub(_rOwned[_excluded[i]]);
        tSupply = tSupply.sub(_tOwned[_excluded[i]]);
    }
    if (rSupply < _rTotal.div(_tTotal)) return (_rTotal, _tTotal);
    return (rSupply, tSupply);
}
```

Recommendation:

Use EnumerableSet instead of array or do not use long arrays.

Conclusion

APPROVED

No vulnerabilities were found.

No Backdoors or Scam Scripts found.

The Smart Contract is Safe to use in the Binance
Smart Chain.



If you are interested in Auditing your project contact us on:



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