



ASSURE DEFI<sup>®</sup>  
THE VERIFICATION GOLD STANDARD

# SECURITY ASSESSMENT REPORT



**NAME:**

FLOORISLAVA [V2]

**STATUS:**

PASS

**DATE:**





29/01/2025





# Risk Analysis

## Vulnerability summary

| Classification  | Description  |
|---|--|
|  High            | <p>Vulnerabilities that can lead to <b>loss or theft of funds, permanent locking of assets, unauthorized minting/burning, protocol insolvency, or full control of the contract or protocol.</b></p> <p>These issues are typically <b>exploitable on-chain</b> and require immediate remediation.</p> |
|  Medium        | <p>Vulnerabilities that <b>weaken protocol security or trust assumptions</b> but do not directly enable immediate loss of funds under normal conditions.</p> <p>Exploitation may require <b>specific conditions, privileged roles, or external failures.</b></p>                                     |
|  Low           | <p>Issues that have <b>limited direct impact</b> on funds or protocol integrity but may cause <b>unexpected behavior, reduced resilience, or future exploitability</b> if combined with other weaknesses.</p>  |
|  Informational | <p>Findings that <b>do not represent security vulnerabilities</b>, but highlight <b>code quality, clarity, maintainability, or best-practice improvements</b> that may enhance long-term safety and auditability.</p>  |

# SCOPE

## Target Code And Revision

|                   |   |
|-------------------|---|
| Project           | Assure  |
| Codebase          | <a href="https://sepolia.basescan.org/address/0x1e945f00d43b6a7355b530cfdd12af196b5e5ab0">https://sepolia.basescan.org/address/0x1e945f00d43b6a7355b530cfdd12af196b5e5ab0</a><br><br>Deployed version:<br><a href="https://basescan.org/address/0xCf4345Be49A951131d839B1E47C0D35b67042D26#code">https://basescan.org/address/0xCf4345Be49A951131d839B1E47C0D35b67042D26#code</a> |
| Audit Methodology | Static, Manual  |



# Detailed Technical Report



HIGH

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No high severity issues were found.





**MEDIUM**

No medium severity issues were found.







No low issues were found.





#### INFORMATIONAL

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No informational issues were found.





# Testing coverage

During the testing phase, custom use cases were written to cover all the logic of contracts. *\*Check “Annexes” to see the testing code.*

```
tests/test_lava.py::test_transfer RUNNING
Transaction sent: 0x630175e2b8028df55fadb3f2e43c4b8fd480cfcbd10f45155fb85cb188b4a285
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
UniswapV2Factory.constructor confirmed Block: 1 Gas used: 2412742 (20.11%)
UniswapV2Factory deployed at: 0x3194cBDC3dbcd3E11a07892e7bA5c3394048Cc87

Transaction sent: 0xf441fd91b57539cf07605aed89ac28b9d879054c215c3ae6ffceb5827765d51
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
WETH9.constructor confirmed Block: 2 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x602C71e4DAC47a042Ee7f46E0aee17F94A3bA0B6

Transaction sent: 0xf99c34447c2dec1afc53e0e268dee0ab9253f622233d4b39a4c948d17ad8c81a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
UniswapV2Router02.constructor confirmed Block: 3 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xE7eD6747FaC5360f88a2EFC03E00d25789F69291

Transaction sent: 0xc2cdc53f1c6b7abf65add87cec03b450c081752b82e081e75f1bb1811b049926
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
LAVA.constructor confirmed (Invalid dev wallet) Block: 4 Gas used: 394603 (3.29%)

Transaction sent: 0x362943007ef2c187967702bf1944a5fac2544c833799b85b98b05e711fdd11bd
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
LAVA.constructor confirmed (Invalid presale wallet) Block: 5 Gas used: 394643 (3.29%)

Transaction sent: 0x0d5445ee75c80fe7111b2bd4728a317cc12f7a8ce987ed52560bd43b481c4dfb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
LAVA.constructor confirmed Block: 6 Gas used: 6343224 (52.86%)
LAVA deployed at: 0x6b4BDe1086912A6Cb24ce3d843b3466e6c72AFD3

Transaction sent: 0x25cc51243c9c5280bdbc1859b00f8177e2a647c729de1a835bd32bc1fb10791d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
LAVA.transfer confirmed (Transfer from zero) Block: 7 Gas used: 23077 (0.19%)

Transaction sent: 0xd23f467add9e07c10de8896710269b21d12e73016bc9c0e21b714aefb7d3bdfd
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
LAVA.transfer confirmed (Transfer to zero) Block: 8 Gas used: 22872 (0.19%)

Transaction sent: 0x49fe4128fe233602861fd908a228310cbb3451d6d26f7c15b44d9058e63970cf
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
LAVA.transfer confirmed (Zero amount) Block: 9 Gas used: 23063 (0.19%)

Transaction sent: 0x3157010c12d497bfd56106fd19e2b4c04837e3ed3bfa86dc6e0033d63430ddc0
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
LAVA.transfer confirmed (Insufficient balance) Block: 10 Gas used: 24048 (0.20%)

Transaction sent: 0xd32ed87192d23e0c2e026a5d8906f219a2bea31f62b70f9d47b7ef34640999d8
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
LAVA.transfer confirmed (Trading not enabled) Block: 11 Gas used: 26658 (0.22%)

Transaction sent: 0x9306199ac4bbb9684cb4b932367891f052af4cdb9ef276c6bd51f931e51195fe
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
LAVA.transfer confirmed Block: 12 Gas used: 58578 (0.49%)

Transaction sent: 0x93b9851b74fec68f1b3ef10af8747ab44e4c81a8d1fa1f8cea409731c3d10238
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
LAVA.transfer confirmed (Game not active) Block: 13 Gas used: 30487 (0.25%)

tests/test_lava.py::test_transfer PASSED
```



```
tests/test_lava.py::test_trading RUNNING
Transaction sent: 0x8ec6efa68a381d3c9dc45702ba2210f27a3144bb6ca3a3f6e60ccabfbc5d8d10
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
UniswapV2Factory.constructor confirmed Block: 14 Gas used: 2412742 (20.11%)
UniswapV2Factory deployed at: 0xcCB53c9429d32594F404d01fbc9E65ED10Cd8D9

Transaction sent: 0x70db79be55f1a1871d85b6a9daf9ccc221641be478fb946b46e6e0897fc38a08
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
WETH9.constructor confirmed Block: 15 Gas used: 476546 (3.97%)
WETH9 deployed at: 0x420b109989eF5baba6D92029594eF45E19A84A4A

Transaction sent: 0x676a6bb38e6867e8280d3296359b2f728c7313cd7d1d1d6f3e421eedde86650c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
UniswapV2Router02.constructor confirmed Block: 16 Gas used: 3895430 (32.46%)
UniswapV2Router02 deployed at: 0xa3053dCd2E3fC28e8E130288F2aB08d5EE37472

Transaction sent: 0x2495da126c366b6503238f32413b428637ad2bde992e2c289e6451966e17ee26
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
LAVA.constructor confirmed Block: 17 Gas used: 6343236 (52.86%)
LAVA deployed at: 0xb6286fAFd0451320adA8143089b216C2152c025

Transaction sent: 0xf494a90a0bc4e66f114df5dd382b87440c4bac4267f979852a486f67c84ade29
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 0
LAVA.startTrading confirmed (Not owner) Block: 18 Gas used: 22250 (0.19%)

Transaction sent: 0x93ff5b4a3d4ba89b63e5f7a0c2a560daf7704207f6004a1e86a0ec1ce37f479
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
LAVA.startTrading confirmed (Add Liquidity first) Block: 19 Gas used: 25171 (0.21%)

Transaction sent: 0x274f41dcce09a39a820c2ebef7d519d43bdc23e88d30d01bdf6add9cb94b53b
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 1
LAVA.addLiquidity confirmed (Not owner) Block: 20 Gas used: 22569 (0.19%)

Transaction sent: 0xeec282a8c77a41fc47ae86fe087af937c35065e156285e0e7a18b1f54b16fd5d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
LAVA.addLiquidity confirmed (Need ETH) Block: 21 Gas used: 28412 (0.24%)

Transaction sent: 0x2687747b4da0d7016bfd10e1a018577378a3185726ca4b1b9f9ad6604f44b02
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 13
LAVA.addLiquidity confirmed Block: 22 Gas used: 252299 (2.10%)

Transaction sent: 0x106da8abf5eda2f33b7fafd6256a28332f0e1943e02c028fb04470b68b4a462
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 14
LAVA.addLiquidity confirmed (Exceeds initial liquidity allocation) Block: 23 Gas used: 29323 (0.24%)

Transaction sent: 0x11a0d74a11541b9c5d4394a350df999a673a1c98c5ed4ddc6248f7a917779f
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 15
LAVA.addLiquidity confirmed (Insufficient non-treasury balance) Block: 24 Gas used: 31083 (0.26%)

Transaction sent: 0xb4a099da63c0ad91b5ca1962e20fb5ea5a01ef4cb8eb3fb9495719f81784278a
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 16
LAVA.startTrading confirmed Block: 25 Gas used: 137148 (1.14%)

Transaction sent: 0x9a2131af91eb2c29cd96444311cb9145b826c01fd90cbc88023523dee459bac
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
LAVA.transfer confirmed Block: 26 Gas used: 58044 (0.48%)

Transaction sent: 0xb8779db986eb8d5b31c8cb1447a0762898c910561aef49e800f687f456a02d30
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 2
LAVA.transfer confirmed Block: 27 Gas used: 59123 (0.49%)

Transaction sent: 0x19e61f893745c92c348a893f25689c0fd7dd8fab616a64ba8d41d2d0a1300675
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
LAVA.transfer confirmed (Exceeds max wallet) Block: 28 Gas used: 27989 (0.23%)

Transaction sent: 0x02a64c2a170cc5fa7f7923acc0afb733258e2a9ed09ffffc03cc8df6d5946566
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 3
LAVA.buyWithEth confirmed Block: 29 Gas used: 208464 (1.74%)

Transaction sent: 0x9ad04077487bf122ab4cf3185691da2fa27b397bc703bc7811be20c22fa28cd5
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 4
LAVA.sellForEth confirmed (No amount) Block: 30 Gas used: 29500 (0.25%)

Transaction sent: 0x0b79b161946fcd91750fd7cd45ef6aa1f19fdc21ddeb16cdc1c9f77b16cal3d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 5
LAVA.sellForEth confirmed (Insufficient balance) Block: 31 Gas used: 30514 (0.25%)

Transaction sent: 0x31d35194bc2fddfd21b4ef8bdf8f1e77b56678e29bd9d0fb3ddcfb0a4697af
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 6
LAVA.sellForEth confirmed Block: 32 Gas used: 226076 (1.88%)

tests/test_lava.py::test_trading PASSED
```



```
tests/test_lava.py::test_floor_price_blocks RUNNING
Transaction sent: 0x6dc2a8c1097c7934aa95ee9059c837660babadd07c65ef1802b73dd7e668561c
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 17
UniswapV2Factory.constructor confirmed Block: 33 Gas used: 2412742 (20.11%)
UniswapV2Factory deployed at: 0xfbd588c728438fa04cf7cd879c8f730Faa2130a0

Transaction sent: 0xc1c7dd122437478f6a54e0bcc33ac88e1115f3f75529745dadde1610f32b4bdb
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 18
WETH9.constructor confirmed Block: 34 Gas used: 476546 (3.97%)
WETH9 deployed at: 0xed00238f9a0f7b4d93842033cdF56cCB32C781c2

Transaction sent: 0x4a3718682bbe911705bc2fdb94a8616d532821793ae6b17bf61dc9295b79faba
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 19
UniswapV2Router02.constructor confirmed Block: 35 Gas used: 3895418 (32.46%)
UniswapV2Router02 deployed at: 0xDae02e4fE488952cF88c95177154D188647a0146

Transaction sent: 0xf912b5d59494162645f5b32b52f843e337a8169fe304e0d12ae7123356e2293d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 20
LAVA.constructor confirmed Block: 36 Gas used: 6343226 (52.86%)
LAVA deployed at: 0xdCF93F11ef216cEC9C07fd31d0801c9b2b39Afb4

Transaction sent: 0x6aa652e090fcdffdfaf94ea451e1471fbc669e30e0169ae43c8ae4a06dfc8231
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 7
LAVA.buyWithEth confirmed (Trading not enabled) Block: 37 Gas used: 29345 (0.24%)

Transaction sent: 0xde5d84178d9c0fe0b30698d78fc15a0f748f1fc2da6a532f063d41f314c84838
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 21
LAVA.addLiquidity confirmed Block: 38 Gas used: 251157 (2.09%)

Transaction sent: 0x8b6f8e09ba65ba934a6d3c3bad499be5de2e72609e2c63b3b43c80b472bf66bd
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 22
LAVA.startTrading confirmed Block: 39 Gas used: 137147 (1.14%)

Transaction sent: 0xde9f13857fe915b7425056b2005268188d4adb53b04311366f62b08a49896a34
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 8
LAVA.buyWithEth confirmed (No ETH sent) Block: 40 Gas used: 29346 (0.24%)

Transaction sent: 0x4220b54150bb635dfb3a8abd176cc974501bb407d155fe2fbd7ba28bf9d003f8
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 9
LAVA.buyWithEth confirmed (Below minimum buy) Block: 41 Gas used: 33395 (0.28%)

Transaction sent: 0xe7e345c541c20b45b79d5e86df4d0ec012cce663beb298f4ac85365aebe739ba
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 10
LAVA.buyWithEth confirmed Block: 42 Gas used: 223554 (1.86%)

Transaction sent: 0xd861e1cd2adb1fe55f2bccc2b096bd0487b961370d1a62ff92f17b5085ccea21
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 11
LAVA.sellForEth confirmed (Rug timer expired - execute rug first) Block: 44 Gas used: 32240 (0.27%)

Transaction sent: 0xdeb8ae2a27c8c8fe3fab99619fd631fd01a01e3cc0daa1b72567afead4c09d
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 23
LAVA.checkAndExecuteRug confirmed Block: 45 Gas used: 1112837 (9.27%)

Transaction sent: 0xf9806922bc913f75bb0e81be51bb712b305bcfd09b8a6ccae0eb261a3d4d78f8
Gas price: 0.0 gwei Gas limit: 12000000 Nonce: 12
LAVA.sellForEth confirmed (Price at or below floor) Block: 46 Gas used: 42421 (0.35%)

tests/test_lava.py::test_floor_price_blocks PASSED
```



tests/test\_lava.py::test\_set\_fee\_wallet **RUNNING**

Transaction sent: **0x46e8e3ab8e2b57d0ebf51fde062fbf53d43b152fdfad4eec2330a6c7682a6cc4**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **24**

UniswapV2Factory.constructor confirmed Block: **47** Gas used: **2412742** (20.11%)

UniswapV2Factory deployed at: **0xf9C8Cf55f2E520B08d869df7bc76aa3d3ddDF913**

Transaction sent: **0x662a967656dee69fbf5ebac96ec1bd0e4df1564ca7f2f08409e90e796776ba57**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **25**

WETH9.constructor confirmed Block: **48** Gas used: **476546** (3.97%)

WETH9 deployed at: **0x654f70d8442EA18904FA1AD79114f7250F7E9336**

Transaction sent: **0x5e8d9478560f9b450bbf3c5006c9dd1d0f374045ab700a78f2fdc862329d73d7**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **26**

UniswapV2Router02.constructor confirmed Block: **49** Gas used: **3895430** (32.46%)

UniswapV2Router02 deployed at: **0xADeD61D42dE86f9058386D1D0d739d20C7eAfc43**

Transaction sent: **0x5bc5a7e86ae9644568d7ba69430f2699b30eb1014ae6b4bf67757aff468c9fbf**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **27**

LAVA.constructor confirmed Block: **50** Gas used: **6343236** (52.86%)

LAVA deployed at: **0x832698Daec363C9A7aB036C224Af5B21280b3AC6**

Transaction sent: **0x495e75cd170ade442ba8abcc6863fe21c0ad9d93a5fa4bb03f19381b9390e98c**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **13**

LAVA.setFeeWallet confirmed (**Not owner**) Block: **51** Gas used: **22824** (0.19%)

Transaction sent: **0x01741de443ed8fce962ff06a7771bb9060d2e1538e71ff22bac2b4bbb65c7e9**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **28**

LAVA.setFeeWallet confirmed (**Invalid fee wallet**) Block: **52** Gas used: **22610** (0.19%)

Transaction sent: **0x0dd9afa0c641dbc75ca537de4e3b4b6c3dfba2db8ac56636c1a9c8255343c418**

Gas price: **0.0** gwei Gas limit: **12000000** Nonce: **29**

LAVA.setFeeWallet confirmed Block: **53** Gas used: **64584** (0.54%)

tests/test\_lava.py::test\_set\_fee\_wallet **PASSED**

# Annexes

Testing code:

```
from brownie import (
    reverts,
)

from scripts.helpful_scripts import (
    ZERO_ADDRESS,
    DAY_TIMESTAMP,
    get_account,
    get_timestamp,
    increase_timestamp
)

from scripts.deploy import (
    deploy_factory,
    deploy_router,
    deploy_weth,
    deploy_erc,
    deploy_lava
)

...

TOTAL_SUPPLY = 1_000_000_000 * 10**18;
TREASURY_SUPPLY = 600_000_000 * 10**18;
DEV_SUPPLY = 200_000_000 * 10**18;
PRESALE_SUPPLY = 100_000_000 * 10**18;
INITIAL_LIQUIDITY = 100_000_000 * 10**18;

MAX_WALLET_PERCENT = 5;
MEV_BLOCKS = 1;
TREASURY_RETURN_PERCENT = 80;
BUY_TAX_BPS = 200; // 2% tax on buys
MAX_MIN_BUY = 0.02 ether; // Production: 0.5 ether

MAX_TX_PERCENT = 2;
BURN_PERCENT = 20;
REFILL_TARGET = 100_000_000 * 10**18;
SELL_TAX_BPS = 200; // 2% tax on sells
FLOOR_MULTIPLIER = 4;
```



```

'''
def test_transfer(only_local):
    # Arrange
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    dev_wallet = get_account(3)
    presale_wallet = get_account(4)

    factory = deploy_factory(owner, owner)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)

    with reverts("Invalid dev wallet"):
        deploy_lava(owner, ZERO_ADDRESS, presale_wallet, router.address)
    with reverts("Invalid presale wallet"):
        deploy_lava(owner, dev_wallet, ZERO_ADDRESS, router.address)

    lava = deploy_lava(owner, dev_wallet, presale_wallet, router.address)
    pair = lava.pair()

    with reverts("Transfer from zero"):
        lava.transfer(other, 1e18, {"from": ZERO_ADDRESS})
    with reverts("Transfer to zero"):
        lava.transfer(ZERO_ADDRESS, 1e18, {"from": extra})
    with reverts("Zero amount"):
        lava.transfer(other, 0, {"from": extra})
    with reverts("Insufficient balance"):
        lava.transfer(other, 1e18, {"from": extra})
    with reverts("Trading not enabled"):
        lava.transfer(other, 1e18, {"from": dev_wallet})

    tx = lava.transfer(owner, 50000000e18, {"from": dev_wallet})
    assert tx.events['Transfer'][0]['from'] == dev_wallet
    assert tx.events['Transfer'][0]['to'] == owner
    assert tx.events['Transfer'][0]['value'] == 50000000e18

    with reverts("Game not active"):
        lava.transfer(pair, 1e18, {"from": owner})

    # max_wallet 50 000 000
    # max_tx 20 000 000

def test_trading(only_local):

```

```
# Arrange
owner = get_account(0)
other = get_account(1)
extra = get_account(2)
dev_wallet = get_account(3)
presale_wallet = get_account(4)

factory = deploy_factory(owner, owner)
weth = deploy_weth(owner)
router = deploy_router(owner, factory.address, weth.address)

lava = deploy_lava(owner, dev_wallet, presale_wallet, router.address)
pair = lava.pair()

with reverts("Not owner"):
    lava.startTrading({"from": other})
with reverts("Add liquidity first"):
    lava.startTrading({"from": owner})

with reverts("Not owner"):
    lava.addLiquidity(1e18, {"from": other})
with reverts("Need ETH"):
    lava.addLiquidity(1000e17, {"from": owner})

lava.addLiquidity(1000000e18, {"from": owner, "value": 100e18})

with reverts("Exceeds initial liquidity allocation"):
    lava.addLiquidity(100000001e18, {"from": owner, "value": 1e18})
with reverts("Insufficient non-treasury balance"):
    lava.addLiquidity(100000000e18, {"from": owner, "value": 1e18})

lava.startTrading({"from": owner})

tx = lava.transfer(other, 10e18, {"from": dev_wallet})
assert tx.events['Transfer'][0]['from'] == dev_wallet
assert tx.events['Transfer'][0]['to'] == other
assert tx.events['Transfer'][0]['value'] == 10e18

tx = lava.transfer(extra, 2e18, {"from": other})
assert tx.events['Transfer'][0]['from'] == other
assert tx.events['Transfer'][0]['to'] == extra
assert tx.events['Transfer'][0]['value'] == 2e18

with reverts("Exceeds max wallet"):
    lava.transfer(other, 50000000e18, {"from": dev_wallet})
```



```
# buy
tx = lava.buyWithEth(0, get_timestamp() + 60, {"from": other, "value": 1e18})
assert tx.events['EthTaxCollected'][0]['user'] == other
assert tx.events['EthTaxCollected'][0]['ethAmount'] == (1e18 * 0.02)
assert tx.events['EthTaxCollected'][0]['isBuy'] == True
```

```
# sell
with reverts("No amount"):
    lava.sellForEth(
        0,
        0,
        get_timestamp() + 60,
        {"from": other}
    )
with reverts("Insufficient balance"):
    lava.sellForEth(
        lava.balanceOf(other) + 1e18,
        0,
        get_timestamp() + 60,
        {"from": other}
    )
```

```
tx = lava.sellForEth(
    lava.balanceOf(other) // 2,
    0,
    get_timestamp() + 60,
    {"from": other}
)
assert tx.events['EthTaxCollected'][0]['user'] == other
assert tx.events['EthTaxCollected'][0]['isBuy'] == False
```

```
def test_floor_price_blocks(only_local):
    # Arrange
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    dev_wallet = get_account(3)
    presale_wallet = get_account(4)

    factory = deploy_factory(owner, owner)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)
```

```

lava = deploy_lava(owner, dev_wallet, presale_wallet, router.address)
pair = lava.pair()

with reverts("Trading not enabled"):
    lava.buyWithEth(0, get_timestamp() + 60, {"from": other, "value": 1e18})

lava.addLiquidity(5e18, {"from": owner, "value": 10e18})
lava.startTrading({"from": owner})

with reverts("No ETH sent"):
    lava.buyWithEth(0, get_timestamp() + 60, {"from": other, "value": 0})

with reverts("Below minimum buy"):
    lava.buyWithEth(0, get_timestamp() + 60, {"from": other, "value": 1})

lava.buyWithEth(0, get_timestamp() + 60, {"from": other, "value": 1e17})
balance = lava.balanceOf(other)

increase_timestamp(DAY_TIMESTAMP * 7)

with reverts("Rug timer expired - execute rug first"):
    lava.sellForEth(balance, 0, get_timestamp() + 60, {"from": other})

lava.checkAndExecuteRug({"from": owner})

with reverts("Price at or below floor"):
    lava.sellForEth(balance, 0, get_timestamp() + 60, {"from": other})

def test_set_fee_wallet(only_local):
    # Arrange
    owner = get_account(0)
    other = get_account(1)
    extra = get_account(2)
    dev_wallet = get_account(3)
    presale_wallet = get_account(4)

    factory = deploy_factory(owner, owner)
    weth = deploy_weth(owner)
    router = deploy_router(owner, factory.address, weth.address)

    lava = deploy_lava(owner, dev_wallet, presale_wallet, router.address)

    with reverts("Not owner"):
        lava.setFeeWallet(extra, {"from": other})

```







```
with reverts("Invalid fee wallet"):
    lava.setFeeWallet(ZERO_ADDRESS, {"from": owner})

assert lava.feeWallet() == owner
lava.setFeeWallet(other, {"from": owner})
assert lava.isExcludedFromFees(other) == True
assert lava.feeWallet() == other
```



# Technical Findings Summary

## Findings

| Vulnerability Level   | Total | Pending | Not Apply | Acknowledged | Partially Fixed | Fixed |
|---|-------|---------|-----------|--------------|-----------------|-------|
|  High          | 0     |         |           |              |                 |       |
|  Medium        | 0     |         |           |              |                 |       |
|  Low           | 0     |         |           |              |                 |       |
|  Informational | 0     |         |           |              |                 |       |



# Assessment Results

## Score Results

| Review       | Score         |
|--------------|---------------|
| Global Score | 90/100        |
| Assure KYC   | Not completed |
| Audit Score  | 90/100        |

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 84 Points for a higher standard, if a project does not attain 85% is an automatic failure. Read our notes and final assessment below. The Global Score is a combination of the evaluations obtained between having or not having KYC and the type of contract audited together with its manual audit.

## Audit PASS

Following our comprehensive security audit of the token contract for the FLOORISLAVA [V2] project, the project **did meet the necessary criteria required to pass the security audit.**



## 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 advocating for the Project, and users relying on this report should not consider this as having any merit for financial Token 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. All information provided in this report does not constitute financial or investment in Token, nor should it be used to signal that any person reading this report should invest their funds without sufficient individual due diligence, regardless of the findings presented. Information is provided 'as is, and Assure Defi is under no covenant to audit completeness, accuracy, or solidity of the contracts. In no event will Assure Defi or its partners, employees, agents, or parties related to the provision of this audit report be liable to any parties for, or lack thereof, decisions or actions with regards to the information provided in this audit report. The assessment of Tokens provided by Assure Defi are subject to dependencies and are under continuing development. You agree that your access or use, including but not limited to any Tokens, reports, and materials, will be at your sole risk on an as-is, where-is, and as-available basis. Cryptographic tokens are emergent technologies with high levels of technical risk and uncertainty. The assessment reports could include false positives, negatives, and unpredictable results. The Token may access, and depend upon, multiple layers of third parties.

