HUMAID — Internal Smart-Contract Test Report

18 November 2026 · HUMAID team

The HUMAID contracts passed every test: 48 automated tests and a full end-to-end run on BNB Chain testnet. This is an internal report prepared by the project team, not an independent security audit.

Scope and limits

The report covers the logic of the six contracts as designed: the phased sale, donation routing, the trading fee, liquidity and its lock, and the founder allocation.

- **What was done:** automated tests against a local copy of PancakeSwap V2, then a live run on BNB Chain testnet (Chain ID 97) using the official PancakeSwap router.
- **The only difference in the testnet version:** time periods are shortened to minutes and hours (for example a 10-minute phase instead of 60 days); the logic is identical.
- **What it does not cover:** this is not an independent security audit, since the author of the contracts also tested them.
- **Currency used in the run:** a worthless test dollar (TestUSD) instead of USDT.

Contracts tested

The contracts are written in Solidity 0.8.24 (optimizer 200, EVM paris) and built on the audited OpenZeppelin 5.1 library.

Contract	Role	Holds
HumaidToken	The token: fixed supply of 10,000,000 and a 1% transfer fee that can never be raised	Collected trading fees until converted
HumaidSale	3-phase sale at $0.10, $0.15 and $0.20; unsold tokens are burned	6,000,000 HUMAID; never holds buyers’ dollars
DonationSplitter	Receives the donation share and pays it only to registered organizations	Donations until distributed
LiquidityReserve	Adds liquidity to PancakeSwap in 3 tranches and locks each for one year	1,000,000 HUMAID and the locked LP tokens
FounderVesting	Founder allocation: 5-year lock, then linear release over 36 months (OpenZeppelin VestingWallet)	3,000,000 HUMAID
HumaidDeployer	Deploys, wires and distributes the five contracts in one transaction, then keeps no balance or rights	Nothing

Automated tests

All 48 tests passed (Foundry, with a real local copy of the PancakeSwap V2 contracts), including a fuzz test run 256 times with random amounts.

Area	Tests	Main points proven
Sale and phases	14	Prices, $10 minimum, 50,000-token cap per wallet per phase, 60-day phases and a 180-day sale at most, only USDT and USDC accepted
Fund split and burning	6	40% to donations and 60% to the project in the same transaction; the sale contract holds no funds; only the owner can burn
Buyer claims	6	Claims open when trading starts, or automatically after 30 days if no liquidity is added, even if the owner disappears
Token and fee	8	Fee is 1% and can only go down; no new minting; fee-exemption list frozen; half of converted fees go to organizations; slippage protection when converting
Donation splitter	2	Organization changes need a 7-day public notice; invalid or duplicate shares rejected; only the owner or organizations can distribute
Liquidity and lock	8	First tranche only after the sale, at $0.20; later tranches after 90 days; one-year lock that can only be extended; resists an attempt to block pool creation
Founder allocation	1	Zero before 5 years, half after 18 months, all after 36 months
Deployment	3	One transaction distributes the supply exactly; the deployer keeps no balance or exemption; two-step ownership transfer
Total	**48**	**All passed**

Run on BNB Chain testnet

Between 13 and 18 November 2026 we ran the full project cycle on testnet, and every step gave the expected result.

Step	Result
Deploy the system in one transaction, then accept ownership	Supply split: 6M for sale, 1M for liquidity, 3M for the founder
Buy for $100 in phase 1	1,000 HUMAID; $40 reached the donation splitter and $60 the project wallet in the same transaction
Close the phase and end the sale	Unsold tokens burned

Step	Result
First liquidity tranche (400,000 HUMAID with $80,000)	Trading opened on PancakeSwap at $0.1996
Buyer claim	1,000 HUMAID reached the buyer’s wallet
Transfer 100 HUMAID between wallets	99 arrived; 1 went to the contract as fee
Convert the fee to dollars	Sold on PancakeSwap and split in half between the splitter and the project
Register a test organization	The proposal appeared publicly with its activation time and could not be applied before the delay
Distribute donations	The organization received $40.09979 (40 from the sale, the rest from the fee)
Buy on PancakeSwap for $500	2,454.75 HUMAID, after the 1% fee
Sell 1,000 HUMAID on PancakeSwap	$199.68, after the 1% fee
Second liquidity tranche	Added after its delay
Withdraw locked liquidity early	Rejected, even for the owner (StillLocked)
Withdraw liquidity after its lock	Succeeded
Founder allocation after its period	3,000,000 HUMAID became releasable and were released

Owner permissions

The owner runs day-to-day operations, but the contracts prevent the owner from touching buyers’ funds, donations or locked liquidity.

The owner can	The owner cannot
Start and close phases and burn unsold tokens	Mint new tokens
Lower the fee	Raise the fee above 1%
Convert collected fees to dollars	Send the organizations’ share anywhere else
Propose changes to organizations and their shares	Apply a change before its 7-day public notice ends
Distribute the donation splitter (so can registered organizations)	Withdraw donations for themselves
Add liquidity tranches on schedule and extend their lock	Withdraw liquidity before its one-year lock ends, or take the liquidity tokens themselves
End the sale early between phases	Stop buyers from claiming, since claims open automatically after 30 days
—	Access the founder allocation before 5 years, or speed up its release
—	Hold buyers’ funds inside the sale contract

Known limits and next steps

We list these openly so buyers can decide with full information.

- **No independent audit yet:** no outside party has reviewed the contracts so far.
- **The 50,000 cap per wallet:** it can be bypassed with several wallets, since the contract cannot know who owns them.
- **A single owner key:** the permissions above sit with one wallet protected by a hardware wallet, not a multisig.
- **Fee conversion is manual:** it is done weekly; unconverted fees stay safe in the contract.
- **A transfer fee:** some wallets and scanners flag “tokens with a transfer tax”; this is expected and disclosed here.
- **The price is not guaranteed:** liquidity softens price moves but does not prevent drops. HUMAID is not offered as an investment.

Next step: deploy to mainnet with the original version and its full time periods, then verify the code on BscScan so anyone can compare it with this report.