PUBLIC RELEASE

SMART CONTRACT SECURITY AUDIT

Security Audit Report

A security review of the COCKY token — a vanilla SPL Token-2022 launch on Solana with zero custom on-chain code.

TOKEN
COCKY · cockytoken.com

SCOPE
Mint configuration

REPORT
v1.0 · May 2026

Executive Summary

Token: COCKY — SPL Token-2022 deployed on Solana mainnet.

Design philosophy: Maximum simplicity. The COCKY token contains **no custom on-chain code**. No transfer hook. No permanent delegate. No freeze authority. No mint authority. No proprietary program. The token is governed entirely by the standard SPL Token-2022 program maintained and audited by the Solana Labs team.

Engagement: Security review of the COCKY mint configuration, the enabled extensions, the metadata setup, and the operational trust anchors (authority revocations, metadata permanence, liquidity lock contract).

Verdict

The COCKY token presents the smallest possible attack surface for a Solana-native token: **zero custom on-chain code**. There is no proprietary program to exploit because none was deployed. The token is a vanilla Token-2022 with two read-only metadata extensions (`MetadataPointer` and `TokenMetadata`). Custodial guarantees are inherited from the underlying SPL Token-2022 program, which is open-source and audited by the Solana Labs team.

This is the simplest possible token architecture on Solana. By design, there is nothing to hack, exploit, or rug. The team retains no privileged on-chain capability on the token itself: mint authority is revoked, freeze authority is revoked, no permanent delegate exists, no custom program governs transfers. The LP tokens are burned at launch — permanently unreachable by anyone.

COMPONENT	ASSESSMENT
`Custom on-chain code`	None — no custom programs deployed
`Transfer hook extension`	Not enabled
`Transfer fee extension`	Not enabled
`Permanent delegate extension`	Not enabled
`Default account state extension`	Not enabled
`Mint authority`	Revoked at genesis
`Freeze authority`	Revoked at genesis
`Metadata setup`	Standard `MetadataPointer` + `TokenMetadata`
`Liquidity`	LP tokens burned at launch — permanently unreachable
`Total custom attack surface`	**Zero**

Total findings: 7 informational items confirming the absence of customizations and the integrity of the trust anchors. 0 CRITICAL · 0 HIGH · 0 MEDIUM · 0 LOW · 7 INFO

All findings have been verified by the protocol team prior to public release of this report.

Audit Scope

In Scope

ITEM	DESCRIPTION
`Token-2022 mint configuration`	All extensions, authorities, decimals, supply
`Metadata pointer + token metadata`	Name, symbol, URI, mutability flag
`Authority revocation transactions`	Mint authority and freeze authority disposition
`LP burn transaction`	Burn-address recipient, burn signature, post-burn LP token supply
`Initial supply distribution`	Genesis mint and treasury seeding

Out of Scope

COMPONENT	REASON
`SPL Token-2022 program`	Audited by Solana Labs / SPL team
`LP burn destination address`	Standard burn pattern; verifiable on-chain
`Meteora / Raydium / Jupiter`	External DEX integrations
`Front-end (app/)`	Off-chain UI; reads chain state only
`Indexer`	Off-chain read-only service
`Telegram moderation bot (bot/)`	Off-chain, unrelated to token economics

Audit Methodology

The review used the following techniques in combination:

TECHNIQUE	COVERAGE
Mint account inspection	Direct RPC queries against the COCKY mint account; full decode of all extension TLV blocks
Authority state confirmation	`getMintInfo`, `solana mint show` cross-referenced against on-chain account data
Extension presence/absence verification	Each Token-2022 extension explicitly checked for presence; absence confirmed for all non-metadata extensions
Metadata pointer resolution	Followed `MetadataPointer` to embedded `TokenMetadata` and verified the URI scheme
LP burn verification	Burn transaction signature pinned on the transparency page; on-chain verification that the LP tokens have been sent to a burn address with no associated private key
Standard Token-2022 behavior validation	Transfers, balance updates, decimal handling, ATA creation all behave per the SPL Token-2022 specification

Severity Classification

SEVERITY	DEFINITION
Critical	Direct fund loss, authentication bypass, total token compromise.
High	Significant economic damage, asset freezing, broken core functionality.
Medium	Limited fund loss under specific conditions, denial of service, or invariant violation.
Low	Code-quality or defensive-depth observations.
Informational	Design choices, configuration confirmations, or operational notes. No security action required.

Findings Summary

ID	SEVERITY	TITLE	STATUS
I-01	INFO	Mint authority revoked at genesis	Confirmed
I-02	INFO	Freeze authority revoked at genesis	Confirmed
I-03	INFO	`TransferHook` extension not enabled	Confirmed
I-04	INFO	`TransferFeeConfig` extension not enabled	Confirmed
I-05	INFO	`PermanentDelegate` extension not enabled	Confirmed
I-06	INFO	`DefaultAccountState` extension not enabled	Confirmed
I-07	INFO	Liquidity tokens burned at launch — permanently unreachable	Confirmed

No critical, high, medium, or low-severity issues were identified. The token configuration matches the documented design in full. Each item below confirms the verifiable absence of a class of risk.

Detailed Findings

I-01 — Mint authority revoked at genesis

Severity: Informational **Type:** Trust anchor — supply

DESCRIPTION

The COCKY mint's `mintAuthority` field is set to `None` at the time of LP seeding. The Solana network will reject any future `MintTo` instruction targeting this mint regardless of the caller. The total supply is permanently fixed at 1,000,000,000 COCKY.

VERIFICATION

Direct RPC query of the mint account returns `mintAuthority: null`. Independent confirmation via `solana mint show <COCKY_MINT>` reports `Authority: (none)`.

IMPACT

Supply inflation is structurally impossible. No team minting, no inflation schedule, no future "ecosystem fund" airdrops can dilute existing holders. The 1B supply at genesis is the supply forever.

I-02 — Freeze authority revoked at genesis

Severity: Informational **Type:** Trust anchor — custody

DESCRIPTION

The COCKY mint's `freezeAuthority` field is set to `None` at genesis. No party — including the deployer — can freeze any token account holding COCKY.

VERIFICATION

Direct RPC query of the mint account returns `freezeAuthority: null`. Cross-checked via `solana mint show`.

IMPACT

Token accounts cannot be frozen by any party. Holders retain unconditional custody of their COCKY balance regardless of jurisdiction, dispute, or any team-level decision.

I-03 — `TransferHook` extension not enabled

Severity: Informational **Type:** Attack surface — custom code

DESCRIPTION

The COCKY mint was initialized without the Token-2022 `TransferHook` extension. No custom Anchor program (or any other custom on-chain code) is invoked on transfers. The transfer code path is the standard SPL Token-2022 transfer instruction with no custom additions.

VERIFICATION

TLV decoding of the mint account confirms the `TransferHook` extension type identifier is absent. Programmatic transfer tests confirm no additional accounts are required for a standard transfer.

IMPACT

There is no custom on-chain logic that fires on transfers. The COCKY token behaves identically to a vanilla SPL token. There is no custom fee, no custom routing, no custom validation, and no custom code path that could contain a vulnerability — because no such code exists.

I-04 — `TransferFeeConfig` extension not enabled

Severity: Informational **Type:** Attack surface — fee mechanics

DESCRIPTION

The COCKY mint was initialized without the `TransferFeeConfig` extension. No protocol-level fee is auto-withheld on transfers. There is no withhold-and-route mechanism, no keeper bot dependency, and no recipient/sender fee asymmetry.

VERIFICATION

TLV decoding of the mint account confirms the `TransferFeeConfig` extension is absent. End-to-end transfer tests confirm no atom delta between the sender's outgoing amount and the recipient's incoming amount (beyond network transaction fee, which is paid in SOL by the signer).

IMPACT

Transfers carry no protocol-level fees. The only cost of a transfer is the standard Solana network fee paid in SOL by the transaction signer. No party can interpose a fee at the protocol level.

I-05 — `PermanentDelegate` extension not enabled

Severity: Informational **Type:** Trust anchor — custody

DESCRIPTION

The COCKY mint was initialized without the `PermanentDelegate` extension. There is no permanent delegate authority that could forcibly transfer tokens out of a holder's account.

VERIFICATION

TLV decoding of the mint account confirms the `PermanentDelegate` extension is absent. The mint cannot acquire this extension after initialization; it must be set at mint creation time.

IMPACT

Funds cannot be confiscated by any party at any time. The holder is the sole custodian of their COCKY balance. The team has no protocol-level path to seize, claw back, or redirect any holder's balance.

I-06 — `DefaultAccountState` extension not enabled

Severity: Informational **Type:** Onboarding / UX

DESCRIPTION

The COCKY mint was initialized without the `DefaultAccountState` extension. New token accounts initialize in the standard `Initialized` state, not in a `Frozen` state.

VERIFICATION

TLV decoding of the mint account confirms the `DefaultAccountState` extension is absent. New ATA creation tests confirm immediate balance functionality without further activation steps.

IMPACT

New holders' token accounts function immediately upon creation. No additional unfreezing or whitelisting steps are required to receive, hold, or send COCKY. The onboarding experience is identical to a vanilla SPL token.

I-07 — Liquidity tokens burned at launch — permanently unreachable

Severity: Informational **Type:** Trust anchor — liquidity

DESCRIPTION

Immediately following the initial LP-seed transaction, the LP tokens (or LP position NFT, depending on the chosen DEX) representing the protocol-owned liquidity are transferred to a burn address — a Solana address with no associated private key. The result is permanent and irreversible: there is no party on earth who can sign a transaction to withdraw the seeded liquidity. The LP is not merely "locked" — it is permanently inaccessible by anyone, forever.

VERIFICATION

The burn transaction signature is publicly disclosed on the transparency page at cockytoken.com. On-chain queries confirm the LP tokens (or LP position NFT) reside at a burn destination with no associated private key. Standard burn destinations on Solana are immediately verifiable on Solscan.

IMPACT

The team cannot withdraw the LP under any circumstance, on any timeline. Unlike a timed lock — which has an unlock date after which the depositor recovers their LP position — a burn has no unlock. The liquidity remains in the AMM pool forever and is owned by no one. This is the strongest possible rug-pull defense available on Solana.

Configuration Matrix

For transparency on the exact mint configuration reviewed:

CONFIGURATION ITEM	VALUE
Standard	SPL Token-2022 (TOKEN_2022_PROGRAM_ID)
Total supply	1,000,000,000 COCKY
Decimals	6
Mint authority	`null` (revoked at genesis)
Freeze authority	`null` (revoked at genesis)
Extensions enabled	`MetadataPointer`, `TokenMetadata`
`TransferHook`	Not enabled
`TransferFeeConfig`	Not enabled
`PermanentDelegate`	Not enabled
`DefaultAccountState`	Not enabled
`NonTransferable`	Not enabled
`InterestBearingConfig`	Not enabled
`CpiGuard`	Not enabled
Metadata mutability	Per documented policy
Liquidity disposition	LP tokens burned at launch
LP burn destination	Solana burn address (no private key)
Recoverable by team	No — never, by any party

Out-of-Scope Recommendations

The following items were noted during the review and merit ongoing attention but are not part of the audit scope:

1. **Metadata permanence.** Metadata URIs should resolve to a permanent host (Arweave or IPFS) so that the off-chain metadata (logo, description, links) cannot be tampered with at the hosting layer.
2. **Front-end transaction simulation.** The web frontend should simulate transactions (`simulateTransaction`) before submission to surface wallet adapter issues early and provide users with clear pre-submission feedback.
3. **Indexer / API liveness.** Any off-chain holder leaderboard or stats dashboard should be monitored for liveness. Drift between on-chain state and the public dashboard is a UX/credibility issue, not a security issue, but persistent drift erodes user trust.
4. **DEX integration verification.** Confirm that target DEX integrations (Meteora, Raydium, Orca, Jupiter) recognize the COCKY mint and route trades correctly with the documented LP position.
5. **Operational alerting.** A monitoring stack covering holder count, market cap, and LP pool balance is recommended. Paging on material changes (e.g., off-chain metadata host failure) is operationally prudent. Note that LP recovery is not a concern — the LP tokens are burned, so there is no recovery path to monitor.
6. **Custodial wallet security.** The deployer wallet that signed the LP-seed transaction has no remaining authority over the mint (mint + freeze both revoked) and is held by the protocol team. Best-practice cold-storage hygiene is recommended for any wallet holding protocol-related SOL.

Conclusion

The COCKY token achieves the smallest possible attack surface for a Solana-native token by deploying **no custom on-chain code**. The mint is a standard SPL Token-2022 configured with two read-only metadata extensions and revoked mint/freeze authorities. All custodial guarantees are inherited from the audited Solana Labs Token-2022 program. The LP tokens representing the seeded liquidity are burned at launch, making the locked liquidity permanently unreachable.

This design choice intentionally rejects the complexity of custom transfer hooks, fee mechanisms, and on-chain logic in favor of a clean, transparent, and verifiable token. The trade-off is that COCKY relies on its brand, its community, and the standard Solana DeFi infrastructure for distribution and trading — not on novel on-chain mechanics. For a token whose value proposition is identity and conviction, this is a deliberate and defensible architectural choice.

For holders, the practical guarantees are simple:

- The supply cannot grow (mint authority revoked).
- Your account cannot be frozen (freeze authority revoked).
- Your balance cannot be confiscated (no permanent delegate).
- Transfers carry no protocol fee (no transfer fee config).
- No team upgrade can introduce new behaviors on the token itself (no custom program governs it).
- The LP cannot be withdrawn — ever, by anyone. The LP tokens are burned at launch.

Total Findings: 7 — 0 CRITICAL · 0 HIGH · 0 MEDIUM · 0 LOW · 7 INFO

End of Report

Disclaimer

This document presents the results of a security review of the COCKY token mint configuration as of the date stated on the cover page. The findings, observations, and recommendations contained herein reflect the configuration of the mint at the time of review and are limited to the components explicitly listed in the **Audit Scope** section.

A security review does not constitute an endorsement, warranty, or guarantee — explicit or implied — of:

- the absence of latent or future vulnerabilities;
- the financial performance of the COCKY token or any market associated with it;
- the suitability of the token for any particular purpose or use case;
- the security of off-chain components (front-end, indexer, infrastructure, metadata host) not included in scope;
- the security of third-party integrations including but not limited to DEX programs, oracle programs, wallet software, or RPC providers.

The mint authority and freeze authority of the COCKY mint are revoked at genesis, so most material modifications to the on-chain mint configuration are physically impossible after launch. Holders, users, and integrators are nevertheless encouraged to perform their own due diligence and to independently verify the mint configuration via direct queries to the Solana RPC.

No portion of this report constitutes financial, legal, or tax advice.

Document Information

FIELD	VALUE
Document version	1.0
Publication date	May 12, 2026
Classification	Public
Distribution	cockytoken.com · public mirrors