MCP SERVER | NO CODE | CLOUD HOSTED

Scispot MCP for AI Agents

Manage cannabis laboratory testing and LIMS compliance.

Scispot connects your cannabis laboratory LIMS to an AI agent so you can manage lab operations through natural conversation. It handles sample tracking, result reviews, CoA issuance, and instrument health monitoring without the need to click through complex dashboards. It simplifies regulatory compliance and lab workflows, letting you focus on the science of testing.

A+ Quality Score 100/100

lims | sample-tracking | regulatory-compliance | lab-automation | analytical-results | chain-of-custody

MAINTAINED BY VINKIUS CLOUD FOR AI AGENTS · JULY 2026
vinkius.com/mcp/scispot

SCAN TO VIEW

The connectivity layer between AI and the world's software.

Vinkius sits between AI and every application. All communication passes through Vinkius Cloud via the Model Context Protocol (MCP) — with governance, observability, and security at every layer.

Your AI Connections Run Through Vinkius Cloud

The world's largest managed MCP catalog

Vinkius is the connectivity layer where AI connects to the software your business already runs. We handle the hosting, the security, the credentials, the uptime — you get agents that actually do things.

We operate the world's largest managed MCP catalog. Major SaaS platforms, CRMs, databases, and cloud providers — running, monitored, production-ready. This MCP server is hosted and maintained by the Vinkius Cloud for AI Agents.

> *The agent doesn't manage credentials, doesn't manage uptime, doesn't manage security. Vinkius does.*
>
> — Architecture principle

Four Pillars of the Vinkius Runtime

01 — Security by design

Credentials stay encrypted at rest via AES-256. The AI agent never touches raw keys — they're injected into a sandboxed V8 isolate at runtime. Actions are logged, and connections have an emergency kill switch.

02 — Built on MCP Fusion

This MCP server was built with **MCP Fusion**, the open-source framework (Apache 2.0) that powers the entire Vinkius catalog. Schema-as-firewall strips undeclared fields, compiled PII redaction runs at zero overhead, and cryptographic lockfiles produce git-diffable audit trails.

03 — Deterministic observability

Eight immutable metrics per endpoint: request volume, p95 latency, error rate, active connections, cost attribution. A live payload feed logs every tool call with mutation detection.

04 — Autonomous operations

Servers are deployed, monitored, and patched autonomously. New capabilities and security patches ship weekly. Zero-downtime deployments ensure continuous availability across all managed MCP servers.

AES-256	Ed25519	24h TTL	V8 Isolate
Encryption at rest	PKI vault signatures	Ephemeral session keys	Sandboxed execution

One Token. Instant Access.

Every MCP server on Vinkius is accessed through a **Connection Token**. Tokens are generated in the cloud dashboard and produce a unique MCP endpoint URL. Paste this URL into any MCP-compatible client — no SDK required.

A single token can serve **multiple AI clients simultaneously**, or you can issue separate tokens per client for granular access control. Each token tracks its own request count, last activity timestamp, and can be individually enabled or revoked.

MCP ENDPOINT

```
https://edge.vinkius.com/{token}/mcp
```

Claude · Cursor · VS Code · Windsurf · Grok · Gemini

Security Is the Architecture

Security in Vinkius is not a feature — it's the foundation of the runtime. The gateway enforces multiple independent protection layers between AI agents and third-party APIs.

01 — Ed25519 PKI Vault

Every workspace has an Ed25519 Master Key. Session keys are generated ephemerally (24h TTL) and signed by the Master Key. Credentials never leave the vault boundary.

02 — V8 Isolate Sandboxing

Tool code runs inside isolated-vm V8 isolates with 64 MB memory caps and per-request timeouts. No filesystem access, no network access except through the SSRF-guarded fetch bridge.

03 — SSRF Guard

All outbound HTTP requests are DNS-resolved and validated before execution. Private IP ranges (10.x, 172.16-31.x, 192.168.x, AWS metadata 169.254.x) are blocked at the network layer.

04 — DLP & PII Redaction

A ResponseGuard pipeline intercepts every tool response. Configurable redaction patterns strip sensitive fields (emails, SSNs, card numbers) before data reaches the AI agent.

05 — Cryptographic Audit Trail

Every request is signed into a SHA-256 hash chain with Ed25519 signatures. Events form a tamper-proof, SIEM-exportable forensic record.

06 — Honeytoken Trap System

Phantom credentials are injected into isolated environments. If a honeytoken is used outside Vinkius infrastructure, the server is quarantined instantly.

Emergency Kill Switch

EU AI Act Art. 14(1) Compliant

The kill switch is an **emergency halt** mechanism — not a simple toggle. When triggered, it executes three actions atomically:

01 — Server deactivated

The MCP server is immediately taken offline across the entire cluster.

02 — All tokens revoked

Every connection token is invalidated. Total lockout — reconnection blocked until new tokens are issued.

03 — WebSocket connections killed

Active connections terminated via Redis pubsub broadcast. Propagates to every runtime node in the cluster.

Full Visibility. Zero Guesswork.

The Vinkius cloud dashboard includes a full MCP Governance suite — real-time analytics and security controls for production AI operations.

Control Plane

KPI dashboard with request volume, latency, success rate, token consumption, and AI-generated operational briefings.

Agent Activity

Which AI clients are connecting, how often, and what they're doing — real-time session tracking.

FinOps

Cost tracking per tool, payload compression savings, budget optimization signals, and consumption trends.

Tool Health

Slowest and most error-prone tools, with actionable root-cause insights and performance baselines.

Firewall & DLP

PII redaction activity, sensitive data protection counters, and security event timeline.

Incident Log

Error trends, failure rates, status-code breakdowns, and forensic audit trail access.

> Get started at **cloud.vinkius.com** — connect your AI agent in under 60 seconds.

Scispot MCP

12 tools available
Cloud-hosted on Vinkius

This MCP connects your cannabis laboratory LIMS to an AI agent so you can manage lab operations through natural conversation. It replaces the need to go through complex dashboards by letting your agent handle sample tracking, result reviews, and CoA issuance. You can query the status of a rush order, pull an audit trail for a compliance check, or see which plates are currently in the run. It handles the tedious parts of lab management like monitoring instrument readiness and tracking sample custody, ensuring your workflows stay on track. By bringing your lab data into your AI workspace, you get a clearer view of your operations. It's a massive shift from reactive searching to proactive management, and it's one of the most practical ways to use the Vinkius catalog to actually move the needle on daily operations. You stop being a data entry clerk and start being a lab director who actually sees the full picture in real time. You no longer have to dig through layers of menus to find a single potency percentage or check if an HPLC system is due for maintenance. Instead, you get a direct line to your laboratory data that responds to your specific questions. This means you can spot bottlenecks in your sample intake faster, identify failed runs before they impact your clients, and keep your documentation ready for any surprise inspection. It's about moving from a world of manual data reconciliation to a world of conversational intelligence.

Core Capabilities

01 — Track sample custody

See where every cannabis sample is in the testing lifecycle from intake to completion.

02 — Review test results

Check potency, terpenes, and contaminant levels instantly for any batch.

03 — Issue Certificates of Analysis

Pull ready-to-send CoAs with QR codes for your clients in seconds.

04 — Monitor instrument health

Check calibration and maintenance status for HPLC, GC-MS, and other systems.

05 — Audit laboratory logs

Pull full operation histories for regulatory inspections and data integrity checks.

06 — Manage production batches

Link samples to specific seed-to-sale production data for full traceability.

07 — Track client orders

Monitor request status from submission to final invoicing.

One Click on Vinkius — From Prompt to Execution

Available at **vinkius.com/mcp/scispot** — connect your AI agent in three steps.

01 Subscribe to the MCP and generate an API key from your Scispot account settings.

02 Connect your API key to your AI client via the Vinkius platform.

03 Ask your agent to check sample statuses, pull CoAs, or audit lab logs.

The bottom line is you get a conversational interface for your entire cannabis laboratory LIMS.

Built For

Laboratory directors and quality managers who are tired of manual data reconciliation and need a clear view of lab throughput and compliance.

Lab Director

Verifies instrument calibration and reviews pending CoAs to ensure ISO compliance without leaving their workspace.

Quality Manager

Audits test results and investigates non-conformance workflows during inspections through conversational queries.

Analytical Chemist

Checks sample queues and verifies test panel configurations directly from the bench.

Client Relations

Provides cultivators with real-time sample status updates and CoA delivery confirmations.

What Changes When You Connect

01 Stop manual data hunting by using list_results to instantly see potency and contaminant levels for any sample.

02 Ensure regulatory readiness by pulling full operation histories with list_audit_logs for FDA or ISO inspections.

03 Speed up product releases by quickly identifying and reviewing pending CoAs using list_certificates.

04 Reduce downtime by checking the calibration and maintenance status of HPLC or GC-MS systems with list_instruments.

05 Improve client satisfaction by providing real-time updates on order progress using the list_orders tool.

06 Maintain perfect chain of custody by tracking every sample's journey from intake to completion with list_samples.

Real-World Applications

Audit Prep

A Quality Manager needs to prove data integrity. They ask the agent to pull all audit logs for a specific result modification to show the authorized user and timestamp.

Rush Order Management

A Lab Director wants to know what's pending. They ask the agent to list all orders with priority status and see the estimated completion dates.

Instrument Scheduling

A chemist needs to know which machines are ready. They ask the agent to list all instruments and identify which ones are active and have current calibration.

Client Reporting

A relations manager needs to update a cultivator. They ask the agent to check the status of three specific samples and provide a summary of the current test results.

Patterns to Avoid

Manual Audit Checking

✗ AVOID

Trying to scroll through hundreds of logs manually to find a specific change.

✓ INSTEAD

Use list_audit_logs to filter for specific action types like result modified.

Guessing Instrument Status

✗ AVOID

Checking the lab floor to see if a machine is on or calibrated.

✓ INSTEAD

Use list_instruments to see the official calibration and maintenance status.

Missing Batch Links

✗ AVOID

Losing track of which batch a sample belongs to during a recall check.

✓ INSTEAD

Use list_batches to link samples to seed-to-sale tracking identifiers.

The Right Fit

Use this if you need to connect a Scispot LIMS to an AI agent for real-time lab management, regulatory auditing, or sample tracking. It's built for high-throughput cannabis labs that need to query results, monitor instruments, and manage CoAs. Don't use it if you aren't already using Scispot as your LIMS, as it requires a Scispot API key to function. It's not a standalone LIMS; it's a bridge to your existing Scispot data.

Scispot MCP for Cannabis Lab Regulatory Compliance

Lab managers often spend hours digging through nested menus in their LIMS to find a single test result or verify a calibration date. They're jumping between tabs, copy-pasting data into spreadsheets, and manually checking if a batch is

With this MCP, you can just ask your AI agent to pull that data. You get a direct line to your laboratory records where you can query results, audit logs, and instrument statuses in seconds.

cleared for distribution. It's a slow, error-prone process that keeps them away from actual lab oversight.

You move from manual data hunting to instant answers.

Scispot MCP for Automated Laboratory Workflow Management

Tracking sample custody and batch traceability requires constant attention to detail. One missed step in the chain of custody can lead to a massive regulatory headache or a failed inspection. Manually reconciling these records across different production facilities is a nightmare for any lab director.

This MCP automates the heavy lifting by providing a conversational way to monitor your entire workflow. You can see every sample's status, check batch linkages, and verify CoA issuance without ever leaving your chat window. It turns complex data into clear, actionable insights.

Scispot MCP with 12 Cannabis Lab Tools

Use your AI agent to manage samples, check results, and audit lab logs via Scispot.

#	TOOL	DESCRIPTION
01	list_audit_logs	This tool lists all audit trail entries for laboratory operations and data modifications. It helps you reconstruct event sequences during quality investigations or regulatory inspections.
02	list_batches	This tool lists all cannabis production batches tracked through laboratory testing. Use it to link samples to seed-to-sale tracking identifiers.
03	list_certificates	This tool lists all Certificates of Analysis (CoA) issued by the laboratory. You can use it to verify CoA authenticity and batch compliance.
04	list_clients	This tool lists all clients (cultivators, processors, retailers) using laboratory services. It helps with identifying sample ownership.
05	list_instruments	This tool lists all laboratory instruments with calibration and maintenance status. Use it to verify equipment readiness before assigning tests.
06	list_orders	This tool lists all testing orders and service requests from clients. It helps you monitor order progress and identify workflow bottlenecks.
07	list_plates	This tool lists all laboratory plates used for batch sample processing. Use it to monitor plate preparation and optimize well assignments.
08	list_results	This tool lists all laboratory test results with complete analytical data. You can use it to verify sample compliance before releasing CoAs.
09	list_runs	This tool lists all analytical runs executed on laboratory instruments. It helps you verify run completion status and identify failed runs.
10	list_samples	This tool lists all cannabis samples submitted for laboratory testing. Use it to manage sample queues and predict completion dates.
11	list_tests	This tool lists all analytical test panels and methods available in the laboratory. Use it to configure sample test orders.
12	list_workflows	This tool lists all laboratory workflow templates and active processes. Use it to guide technicians through standardized testing procedures.

See It in Action

Real prompts you can use once this MCP is connected to your AI agent through Vinkius Cloud.

U What's the status of our current cannabis samples in the potency testing phase?

Checking the potency testing queue...

I found 14 samples currently in the HPLC potency phase.

Status Summary:
- **Completed:** 8 samples (Ready for CoA issuance)
- **In-Progress:** 4 samples (Estimated completion: 2025-05-12)
- **On-Hold:** 2 samples (Waiting for analyst assignment)

Would you like me to list the specific batch IDs for the completed samples?

U Can you list all the Certificates of Analysis that are currently awaiting review?

Reviewing the CoA approval queue...

There are currently 7 Certificates of Analysis awaiting review.

Pending CoAs:
- **CoA-2025-1088:** Blue Dream Batch BD-992 (Potency 28.5% THC)
- **CoA-2025-1089:** OG Kush Batch OG-112 (Terpene profile verified)
- **CoA-2025-1090:** Sour Diesel Concentrate (Passes all state limits)
- ... (4 more pending)

Would you like me to prioritize the rush orders for the signatory?

U Are there any instruments currently offline or needing maintenance?

Checking laboratory instrument status...

Current Instrument Readiness:

- **HPLC System 1:** Active (Next calibration: 2025-06-01)
- **GC-MS Unit 2:** Under Maintenance (Expected back: 2025-05-15)
- **ICP-MS System:** Offline (Needs calibration)
- **qPCR Thermocycler:** Active

Would you like me to schedule a maintenance check for the ICP-MS system?

Frequently Asked Questions

01 **Can the Scispot MCP help me stay compliant with FDA 21 CFR Part 11?**

Yes. The Scispot MCP allows you to pull full audit logs and operation histories instantly. This makes it much easier to demonstrate data integrity and keep your documentation ready for regulatory inspections.

02 **How does the Scispot MCP handle cannabis sample tracking?**

It provides a direct line to your sample database. You can ask your agent to check the status of any sample, see its current testing phase, or view its chain of custody details without opening the LIMS.

03 **Can I use the Scispot MCP to see my lab's instrument maintenance status?**

Absolutely. You can query the status of all your laboratory instruments to see which are active, which are offline, and when their next calibration or maintenance is scheduled.

04 **Does the Scispot MCP allow me to pull Certificates of Analysis for my clients?**

Yes. You can ask your agent to list all pending CoAs or pull specific ones for your clients, including potency profiles and contaminant screening results.

05 **How can the Scispot MCP help a laboratory director manage daily throughput?**

It gives you a bird's-eye view of your operations. You can quickly identify bottlenecks in sample intake, monitor rush orders, and see which batches are ready for release.

06 **Can the Scispot MCP track my production batches from seed to sale?**

Yes. It allows you to link samples directly to production batches, providing full traceability for your seed-to-sale tracking and compliance reporting.

07 **Will the Scispot MCP show me pending test results for my clients?**

Yes. You can query your client list and ask for the status of their specific orders to get real-time updates on test results and estimated completion dates.

08 **Can my AI automatically verify if a cannabis sample has passed all required tests and is ready for Certificate of Analysis issuance?**

Yes! Use the `list_results` tool to fetch all completed analytical findings for a specific sample. Your AI agent will respond with comprehensive pass/fail determinations across potency, terpenes, pesticides, heavy metals, mycotoxins, and microbial panels. Once all state-mandated tests show passing results, use `list_certificates` to verify CoA generation status and confirm automatic Metrc submission. Always verify regulatory limit compliance before releasing products to distribution or retail channels.

09 **How do I quickly identify which laboratory instruments are approaching calibration expiry or require preventive maintenance?**

Simply ask the agent to run the `list_instruments` action. It will compile all analytical equipment tracked via Scispot GLUE integration with calibration status, last service date, next scheduled maintenance, IQ/OQ/PQ qualification records, and current operational state. The AI will proactively highlight any HPLC, GC-MS, ICP-MS, or other systems approaching calibration expiry or overdue for preventive maintenance. This ensures your laboratory maintains ISO/IEC 17025 compliance, analytical data integrity, and inspection readiness at all times.

10 **Does the Scispot integration allow modifying test results, deleting samples, or revoking issued Certificates of Analysis?**

No. The current toolset focuses strictly on read-only querying and analytical operations — listing samples, reviewing results, checking certificates, monitoring workflows, and tracking instrument health. State alteration operations (modifying test data, deleting samples, revoking certificates, or changing approvals) are not currently exposed. This design assures your laboratory records remain secure against destructive queries, maintains complete audit trail integrity for regulatory inspections, and preserves data immutability required by FDA 21 CFR Part 11 and ISO/IEC 17025 standards.

Go Live in 60 Seconds

Get your connection token from **cloud.vinkius.com**, then paste the endpoint URL into any MCP-compatible client.

YOUR MCP ENDPOINT

```
https://edge.vinkius.com/[TOKEN]/mcp
```

CLIENT	WHERE TO CONFIGURE
Claude AI	Profile → Customize → Connectors → "+" → Add custom connector → Paste endpoint
Cursor	Settings → Features → MCP Servers → "+ Add New MCP Server" → Type: SSE → Paste endpoint
VS Code	Ctrl/Cmd+Shift+P → "MCP: Add Server" → add `"scispot": { "url": "…" }`
Windsurf	MCP Settings → `mcp_settings.json` → Add endpoint URL
ChatGPT	Settings → Tools & plugins → Add MCP server → Paste endpoint
Gemini	Extensions → Add MCP Server → Paste endpoint URL

ASK AN AI ABOUT THIS

Let your preferred AI explain this MCP server

- Ask ChatGPT
- Ask Claude
- Ask Perplexity
- Ask Gemini
- Ask Grok

READY TO CONNECT

Scispot is live on Vinkius Cloud.

Get your connection token, paste it into your AI agent, and start building. No SDK. No deployment. Just results.

Start at cloud.vinkius.com →

vinkius.com · support@vinkius.com

INDEPENDENT PLATFORM DISCLAIMER

Vinkius is an independent platform and is not affiliated with, endorsed by, sponsored by, verified by, or otherwise authorized by Scispot. All third-party trademarks, logos, and brand names are the property of their respective owners. Their use in this document is strictly for informational purposes to identify service compatibility and interoperability.

DOCUMENT INFORMATION

Generated	July 2026
MCP Server	Scispot MCP
Server ID	`019d7604-0a85-7047-ac1d-9710339cca41`
Platform	Vinkius Cloud for AI Agents
Endpoint	`https://edge.vinkius.com/{token}/mcp`

LICENSE & USAGE

This document is generated automatically by the Vinkius PDF Engine. Content reflects the MCP server configuration at the time of generation and may change as updates are deployed. For the most current information, visit vinkius.com/mcp/scispot.