

DRAFT FOR REVIEW — Not Doctor-approved for training. VERIFY items must be cleared before competency use.



IN-HOUSE LABORATORY

Cypress & Katy, TX

Document ID: SOP-LAB-012

Version 0.1 DRAFT | Target effective 09/10/2026

NanoCure Maintenance

NanoCure care and profile verification

Smile Avenue Family Dentistry — In-House Laboratory

SprintRay NanoCure — chamber/tray clean, profiles, software

Document ID	SOP-LAB-012
Version	0.1 DRAFT FOR REVIEW
Effective (target)	09/10/2026
Owner	Lab Technician (process) / Doctor (clinical release)
Stack	NanoCure (preferred cure unit on Smile Avenue paths)
Status	DRAFT FOR REVIEW — do not train from this until Doctor sign-off

Related: SOP-LAB-001 (PPE/IPA); product SOPs for exact resin cure profiles

1. Purpose

Keep NanoCure's curing environment clean, software/profiles current, and operators clear on what to do when a material profile is missing so post-cure results stay consistent with SprintRay IFUs.

2. Scope

In scope: Glass curing tray cleaning; dry-part rule before cure; software / automatic updates; cloud sign-in; missing-profile response; height limit; basic chamber/workspace care.

Out of scope: Inventing custom cure times for SprintRay resins that have official profiles; clinical shade/characterization decisions; ProCure legacy units (not on locked Smile Avenue stack).

3. Who

Role	Responsibility
Lab Technician	Tray clean; confirm dry parts; select correct profile; run updates; first-line missing-profile checks
Trainer / Lead Lab Technician	Confirm auto-updates enabled; competency
Doctor	Clinical release if cure deviation suspected; authorize remakes

4. Safety

- Parts must be **fully dry** after IPA wash before curing — residual IPA can harm cure quality and properties (SprintRay NanoCure Maintenance).
- Unit may become warm — do not block rear/front ventilation openings.
- Do not force the drawer closed on oversized models (height limit **3 inches** / place tall models flat).
- PPE when wiping tray with IPA: gloves + eyewear per SOP-LAB-001.
- Do not power off or unplug during software install.

5. Materials

Item	Notes
Soft lint-free cloths	Tray cleaning
IPA (isopropyl alcohol)	First wipe of glass tray
Glass cleaner	Second wipe to remove streaks/haze
Network / SprintRay account	Cloud jobs, updates, profile availability
Power on surge protector / UPS	Per setup guidance

6. Steps by cadence

6.1 EVERY CURE (daily ops)

1. Confirm models were washed per product SOP / IFU and are **visually dry** (no IPA sheen or pooled solvent).
2. Open curing drawer; place models evenly on glass tray; respect **≤ 3 in height** (lay tall/long models flat).
3. Close drawer securely — do not force.
4. Prefer **cloud job handoff** (Queue) when signed in; otherwise manually select the **exact resin profile** printed (e.g., NightGuard Flex 2, Apex Flex, OnX Tough 2 — Max Strength when IFU specifies).
5. Start cycle; allow preheat if prompted; do not open mid-cure unless aborting intentionally.
6. After cure: follow product SOP for any post-cure wipe/finish steps.

6.2 CHAMBER / TRAY CLEAN (when dirty, residue, streaks, or on-screen clean reminder)

SprintRay: clean when tray is dirty or shows residue; software has included clean-tray reminders historically.

1. Remove glass tray from curing drawer.
2. Wipe with soft lint-free cloth dampened with **IPA**.
3. Follow with **glass cleaner** to remove streaks/haze.
4. Allow tray to **fully dry**.
5. Reseat tray flat and secure in drawer.
6. Avoid abrasives and excessive pressure (scratches hurt optical/thermal uniformity).
7. Wipe accessible interior surfaces only as needed with IPA on soft cloth — **VERIFY** any deeper chamber clean limits with SprintRay if debris enters behind tray/frame; do not spray liquids into vents or electronics.

Cadence note: No official calendar “weekly/monthly” tray interval published beyond condition-based cleaning and on-device reminders — practice may add a **weekly wipe (VERIFY)**.

6.3 SOFTWARE & PROFILE UPDATES (weekly check + always-on auto-update)

1. On touchscreen: **Settings** → **Software**.
2. Confirm **Automatic Updates = On** (recommended by SprintRay — installs when idle).
3. Tap **Check for Updates / Update Now** if available; review Release Notes if needed.
4. Download → **Install** → unit restarts — do not unplug.
5. After restart, verify version under Settings → Software.
6. Keep NanoCure on network and signed into the correct SprintRay account so profiles and job handoff stay current.

6.4 WHEN PROFILES ARE MISSING

Work top-down — do **not** invent substitute cure programs for labeled SprintRay resins:

1. Confirm resin is validated for **NanoCure** on the IFU / hardware-resin compatibility matrix.
2. Confirm unit is **online** and **signed in** to the practice SprintRay account.
3. Run **software update** (missing resins have been addressed in NanoCure release notes historically).
4. Power-cycle: hold rear power button ~5 seconds if needed; re-check profile list / search.
5. If cloud job exists, select from **Queue** rather than manual list.
6. If still missing: **stop** production on that SKU; escalate to SprintRay Support with resin name, NanoCure software version, and account/network status. Doctor decides remake / delay.
7. Third-party or non-listed materials: only with explicit IFU/custom guidance — **out of scope** for standard Smile Avenue SprintRay paths.

7. QC

Check	Pass
Dry before cure	No residual IPA/moisture
Profile	Exact resin name/profile matches printed material
Tray	Clear, dry, seated flat
Software	Auto-update On; version noted after monthly glance (VERIFY log)
Height	Models within limit / laid flat

8. Troubleshooting

Issue	Action
Soft / tacky / under-cured feel	Confirm dry-in; correct profile; tray clean; IFU cycle; escalate remake to Doctor
Tray residue / haze	IPA + glass cleaner clean; dry fully
Clean-tray pop-up	Clean tray per §6.2
Profile missing	§6.4 sequence
Won't sign in / no cloud jobs	Network + account troubleshooting; Support if persists
Overheat / vent blocked	Clear vents; relocate per setup (no direct sun)
Drawer won't close	Check height; never force

9. Escalate

Escalate to	When
Doctor	Suspected under-cure on patient devices; remakes; authorization to delay cases for missing profiles
SprintRay Support — 1-800-914-8004	Missing profiles after update/sign-in; hardware faults; software install failures; account/cloud sync issues

10. Sources

- SprintRay Support — NanoCure Maintenance: https://support.sprinray.com/en_US/maintenance_nanocure/nanocure-maintenance
- SprintRay Support — NanoCure Updating Software: https://support.sprinray.com/en_US/maintenance_nanocure/nanocure-updating-software
- SprintRay Support — NanoCure Setup and First Cure: https://support.sprinray.com/en_US/setup-and-usage/nanocure-setup-and-first-cure

- SprintRay Support — NanoCure Software Release Notes (profile/list fixes; clean-tray reminder behavior)
- Resin IFUs in `/workspace/sprintray-ifu/` for preprogrammed NanoCure profile requirement

11. VERIFY list

1. Practice rule: mandatory weekly tray wipe vs condition-only + on-screen reminder.
 2. SprintRay account owner / shared login procedure for NanoCure (IT/security).
 3. Where software version is logged after updates.
 4. Backup plan if NanoCure is down (none on locked stack unless Doctor authorizes alternate validated cure device).
 5. Confirm on-site height-limit labeling / station card.
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