Ultrasound Probe Care

trophon® Probe Compatibility Programme

nanosonics
Infection Prevention. For Life.

trophon®

trophon– the global reprocessing standard for ultrasound probe high-level disinfection

Nanosonics is the manufacturer of trophon, the first major innovation in ultrasound probe high-level disinfection for more than 20 years.

Over 34,000 trophon devices operating across thousands of hospitals in 30+ countries protect 27 million patients each year.[1]

trophon technology

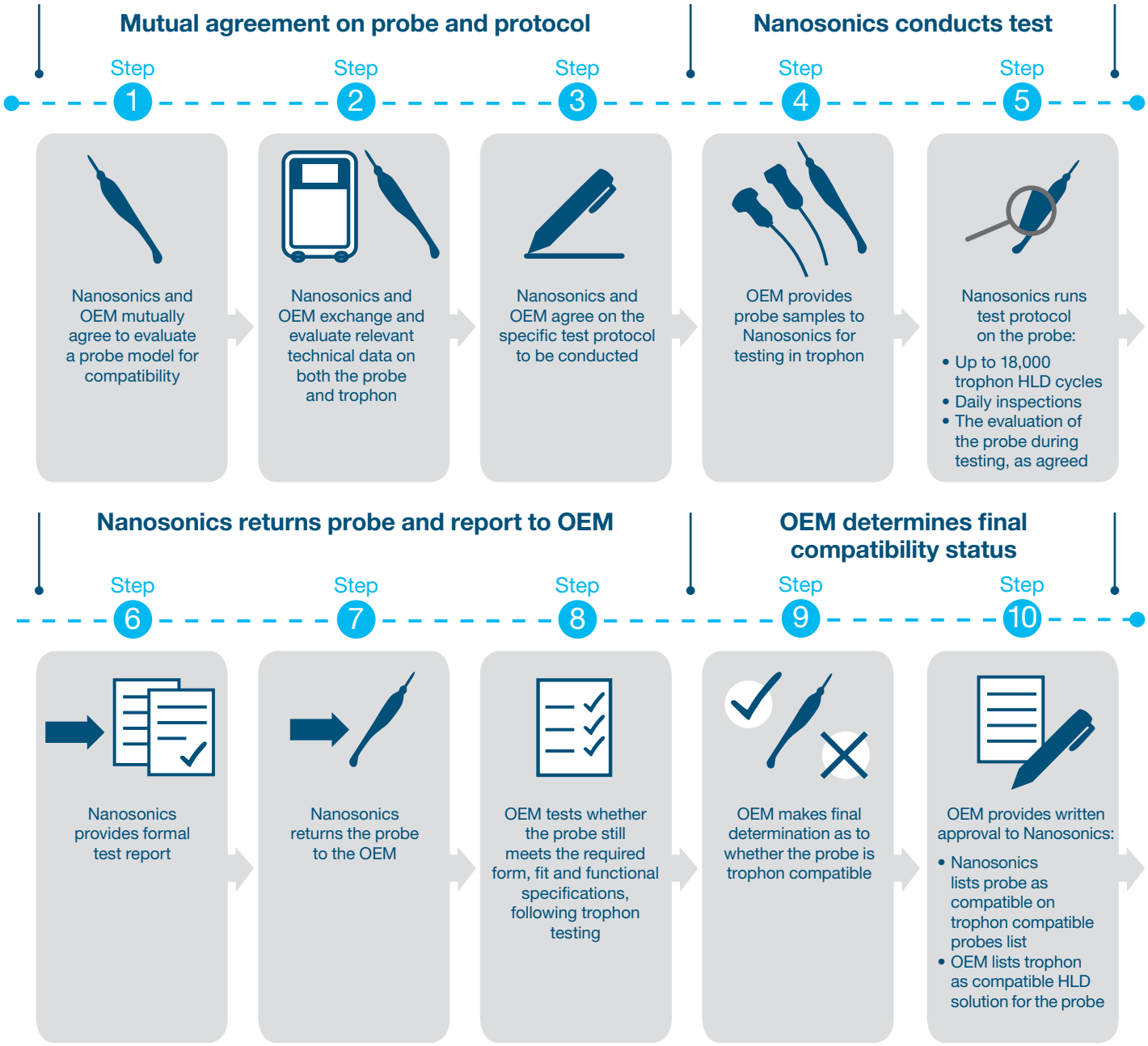
The trophon device's closed and automated system uses ultrasonic vibrations and heat to convert high concentration (35%) hydrogen peroxide into mist particles.

After disinfection, residual hydrogen peroxide is blown out of the chamber and passes through destructors, where it is broken down into environmentally friendly oxygen and water.

trophon device - ultrasound manufacturers' reprocessing solution of choice

The trophon Probe Compatibility Programme is conducted collaboratively between ultrasound probe manufactures and Nanosonics. This collaboration ensures the probe manufacturer's technical expertise informs the compatibility protocol development, guaranteeing required materials' compatibility and functional parameters are effectively measured. The ultrasound probe manufacturer provides final probe compatibility approval.

Protocols for the programme are developed and mutually agreed upon by Nanosonics and the probe manufacturer. Prior to the commencement of testing, baseline photographic documentation of the entire surface of the probe is captured.



Over 1,300 probes from 28 original equipment manufacturers approved and endorsed for trophon devices

Nanosonics has undertaken a rigorous probe compatibility program in partnership with probe manufacturers (OEMs), to confirm ultrasound probes are compatible for use.

During the testing phase, the probe is inspected daily as it progresses through the testing cycles. At approximately 1,000 cycle intervals, photographic documentation of the entire surface of the probe is taken and compared to the baseline documentation to ascertain if any visual physical changes, such as discolouration, cracking or delamination, have occurred. The testing protocol can involve up to 18,000 trophon cycles.

At the end of the cycle testing, a detailed report with all the photographic documentation is returned to the probe manufacturer along with the probe for technical testing. This testing typically includes physical examination, safety testing, probe function and performance, acoustics, image quality and resolution, and signal dropout.

Based on the Nanosonics report and the probe manufacturer testing, the probe manufacturer then makes the final determination on compatibility.

Only when the probe manufacturer commits to listing trophon as compatible, the probe is listed on the Nanosonics trophon compatible probe list.

Top tips for ultrasound probe care

Probe damage is a common occurrence throughout healthcare facilities. A United Kingdom multicentre study found more than 30% of probes in clinics were faulty; 13% of which were completely unfit for use[2]

Listed below are ultrasound probe care tips provided by **Dr Nick Dudley** of Lincoln Country Hospital. These tips can help to prolong the life of your ultrasound probe by reducing wear and tear, and the risk of damage.[3]

General Care	Take great care not to knock or drop the probe. When transporting the probe, ensure that the head and connector are protected from impact against each other and the hard surfaces. Never allow the probe head to hang loose by the cable. **Only use cleaning products approved by the probe manufacturer.**
Lens Care	Use only soft, non-abrasive, manufacturer approved wipes, never dry paper towels. Never rub the lens, but wipe carefully.
Cable Care	Do not stress, bend or pull the cable. When stowing probes ensure cables are not under any stress. Keep cables off the floor and away from wheels; use the cable supports available on most scanners. Clean the cable with the same care as the lens; do not apply friction or pull the cable.
Case Care	When cleaning, do not apply stress to joints; in particular avoid applying twisting motions to domes/caps. Any cracks or opening in the probe case provide a vector for cross-contamination and pose an electrical hazard, so testing and risk assessment are required.
Disinfection Devices	Follow the instructions of the disinfection device manufacturer and the probe manufacturer. Follow the care instructions already outlined. Handle the probe, connector and cable with great care. Position the probe correctly and carefully. Close the device door/lid gently. Do not stress the cable on removal.

Contact a Nanosonics representative to discuss how trophon devices may be applicable to the different scenarios and workflows at your facility.

Please check the compatibility of your probe using this QR Code.

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