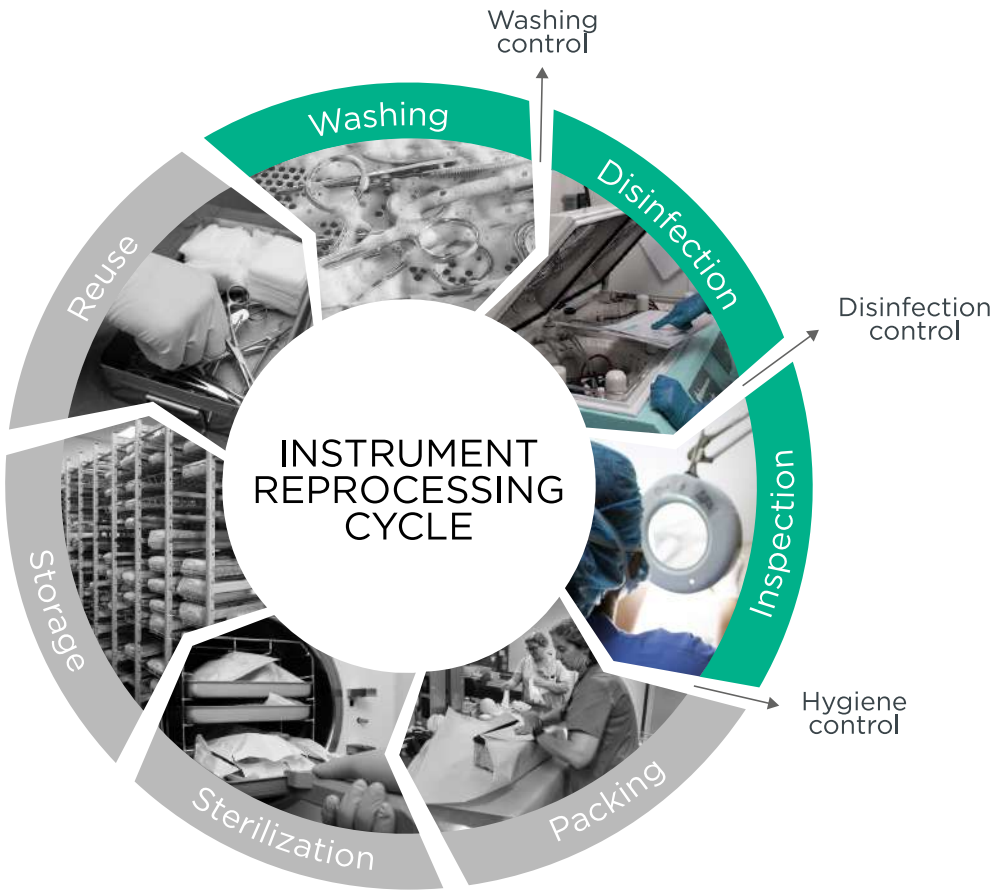
Perfect Cleaning Control System

A complete cleaning monitoring system for SPD/CSSD.

Terragene®

If you are not sure it is clean, does it matter what you do next?

Cleaning is the first essential step in medical device reprocessing. If cleaning is compromised, the efectiveness of the entire sterilization cycle is at risk — directly impacting patient safety.



- **Time**
- **Detergent type**
- **H_2O Quality**
- **Temperature**
- **Mechanics**
- **Detergent concentration**

There are 3 key questions to answer:

_Are you sure your washer is really eliminating the organic residues from your instruments, in every level and rack?
_Are you performing a correct Hygiene Monitoring?
_Have you ever thought about an automated and complete traceability system for the cleaning procedures?

Because there are so many parameters involved in a washing cycle it is critical to monitor them to guarantee an optimal performance of this process.

Get to know Chemdye® Splat

Now you can monitor every cycle and every load!

One strip
Two holders
Two washing types

Very high challenge

Splat CDWA4 indicators are intended for testing the efficacy of soil removal in automatic medical washers, including ultrasonic cleaners that operate in the frequency range of 35-45 kHz and at temperatures between 30-70 °C.

+ CDWAH-U **for ultrasonic cleaners**

+ CDWAH **for automatic medical washers**

No blood components

Automatic interpretation

Automatic registration

Accessible cost

More control, same budget

For cleaning validation and routine monitoring

Easy to use

Two challenge levels:

CDWA3
High challenge

CDWA4
Very high challenge

Compatible with Bionova® Q software

Automatic traceability

Failure and pass results do not refer to the effectiveness of the automatic medical washers/ultrasonic cleaners for cleaning a specific medical device.

Indicator for ultrasonic cavitation test

CDWU-Z + HOLDER

Ultrasonic cleaning is a complex process where cavitation works in synergy with other variables such as water quality, detergent efficacy, and temperature to dislodge soil from hard-to-reach areas. For this reason, verifying the presence and consistency of cavitation under selected process conditions is essential. CDWU-Z indicators are intended to detect cavitation energy and to provide a qualitative indication of the cavitation energy present in the tested zone by a color change.

CDWU-Z Holder is a complementary accessory for keeping the indicator in a fixed position, without affecting its performance. This guarantees the correct performance evaluation of the nearest transducer.

CDWU-Z indicators should not be used to determine whether a particular medical device has been effectively cleaned.

Transforming visual control into objective, traceable data

CAVITEST

CaviTest is an auto-reader that complements the CDWU/CDWU-Z cavitation indicator by standardizing decision-making in ultrasonic cleaning control.

Objective reading
Detects the final color of the CDWU/CDWU-Z indicator through transmittance measurement, avoiding visual interpretation.

Quantifiable Cavitation Index
Converts the measurement into a numerical value correlated with the cavitation energy present in the monitored area.

Clear result: Pass / Fail
Delivers an unambiguous verdict that supports consistent decisions across operators, shifts, and departments.

Full traceability
Generates documented records with historical data for audits, process reviews, and trend evaluation.

COMPATIBLE WITH BIONOVA Q | COMPATIBLE WITH BIONOVA Q

Automatic traceability

INSTANT READING

EASY TO USE

RELIABLE RESULTS

PRINTED EVIDENCE

STANDARDIZED PROCESS CONTROL

Thermodisinfection indicators

Specifically monitor the Thermodisinfection step in washer-disinfectors

_Designed to react to moist heat disinfection processes in washer-disinfectors.
_Accurate and convenient method for routine control.
_Green indicating ink turns to purple when temperature and time conditions are met.

Unprocessed

Failures

Processed and correct

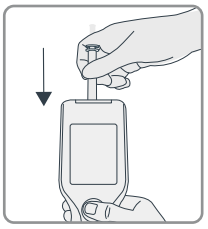
Choose between different products according to your specific disinfection parameters:

Code	Cycle conditions
IT27W-1	1 min at 90 °C. or A_0 = 600
IT27W-5	5 min at 90 °C. or A_0 = 3000
IT27W-10	10 min at 93 °C (BGA/RKI/EPIDEMIC PROGRAM) or equivalent. A_0 = 12000

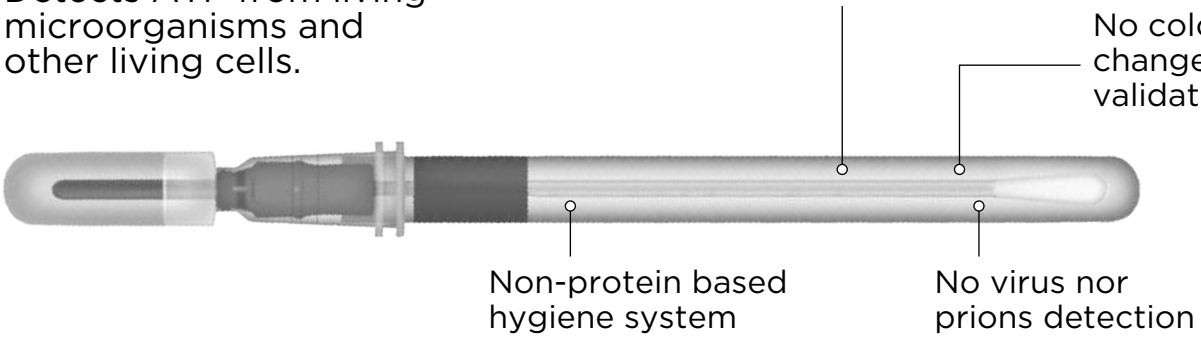
Common hygiene monitoring tools currently used:

ATP based hygiene monitoring systems

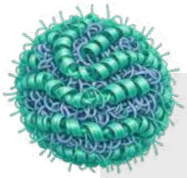
Detects ATP from living microorganisms and other living cells.



Luminometer-based read-out. Indirect ATP measurement through RLU (Relative Light Units)



What is a prion?



A prion is an abnormal, misfolded protein capable of inducing the misfolding of normal proteins in the brain. They are associated with rare but fatal neurodegenerative diseases, such as Creutzfeldt–Jakob or “Mad Cow Disease” disease. Unlike bacteria or viruses, prions contain no DNA or RNA and are highly resistant to conventional sterilization methods thus representing a critical challenge in medical device reprocessing.

Hygiene monitoring **needs to be more rigorous**.
You should rely on quantitative protein-based systems to include virus and prion contaminations as well as dead-cell residues over the instruments.
We have the complete solution!

Measuring protein has never been as easy and accurate

PRO1 MICRO

Pen system for surface protein quantification

A unique Hygiene monitoring system in the market, designed to be used after the cleaning process on any surface. Protein quantification allows to properly monitor the cleaning process using the most "sticky" molecules, the proteins.
It also allows to monitor possible prion contamination and generate traceable information about washing machine historical performance.

COMPATIBLE WITH BIONOVA Q | COMPATIBLE WITH BIONOVA Q

Automatic traceability

Swab

4'
READOUT

WITH **MINI PRO**
AUTO-READER

Optional visual qualitative analysis

Shelf life: 24 months | 2-8 °C

Get automatic quantitative results with Bionova Auto-readers

Are you sure your cannulated devices are correctly cleaned inside their lumens?

PRO1 ENDO

Protein Detection Pen for cannulated devices that allows quantitative analysis of results

Chemdye® PRO1 ENDO is designed to effectively verify the cleanliness of cannulated instruments, such as endoscopes, by detecting protein residues in their internal channels.

2.5 m swabs, available in 4 diameters:

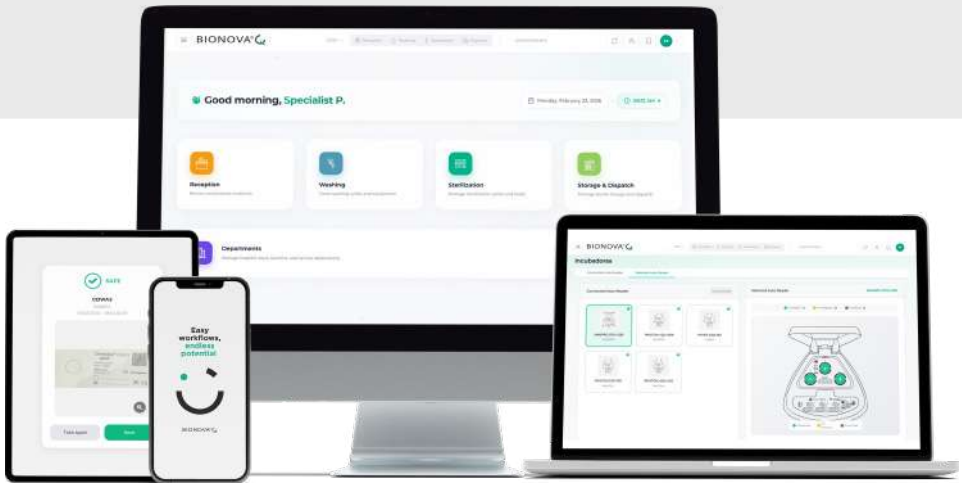
Automatic traceability

Compatible with MiniPro, IC10/20FR and IC10/20FRLCD auto-readers.

ENSURE PERFECT CLEANING IN **4 MINUTES** WITH **MINI PRO** AUTO-READER

BIONOVA® Q

Terragene solution for streamlining process monitoring in the CSSD



No delays, no miscommunication, just clean, connected data
With Bionova® Q, all sterilization data is synchronized in real time, allowing multiple users across shifts to work simultaneously without bottlenecks. Instant updates ensure nothing is missed, improving communication and enabling faster, smarter decisions at any hour.

Beyond the CSSD: true clinical integration
Bionova® Q extends sterilization traceability beyond the department, connecting indicators used in the OR with procedures, instruments, and even patients when required. This integration elevates sterilization from a support function to a critical part of clinical care quality.

Traceability that follows every step, and every reprocess
While each indicator verifies a specific stage of the process, true safety comes from seeing the whole picture. Bionova® Q connects every result to its process, load, operator, and complete reprocessing history, delivering continuous, end-to-end traceability.

Every instrument carries a digital history
From receipt to release, the software captures and centralizes every step of the reprocessing journey—controls, equipment, operators, and storage—ensuring complete traceability and total visibility at all times.

BIONOVA® Q App

Artificial intelligence for infection prevention

A quick scan of chemical indicators ensures efficiency and safety, revolutionizing the way sterile surgical instruments are cleared right before every procedure.

1 

Scan the chemical indicator

2 

Automatically AI reads and interprets the chemical indicator

3 

Done! The report is available on Bionova Q

COMPATIBLE PRODUCTS

IT26-1YS
Unique point integrator indicator

IT26-C
Moving front integrator indicator

CD42
Process indicator

BD125X/1
BD125X/2
Bowie-Dick Test Pack

CD29
Multivariable indicator

CD40
Multivariable indicator

CDWA3
Cleaning Indicator for cleaning performance tests

CDWA4
Cleaning Indicator for cleaning performance tests

Product availability and regulatory compliance may vary by country. Please consult your local distributor before ordering.

terragene.com