

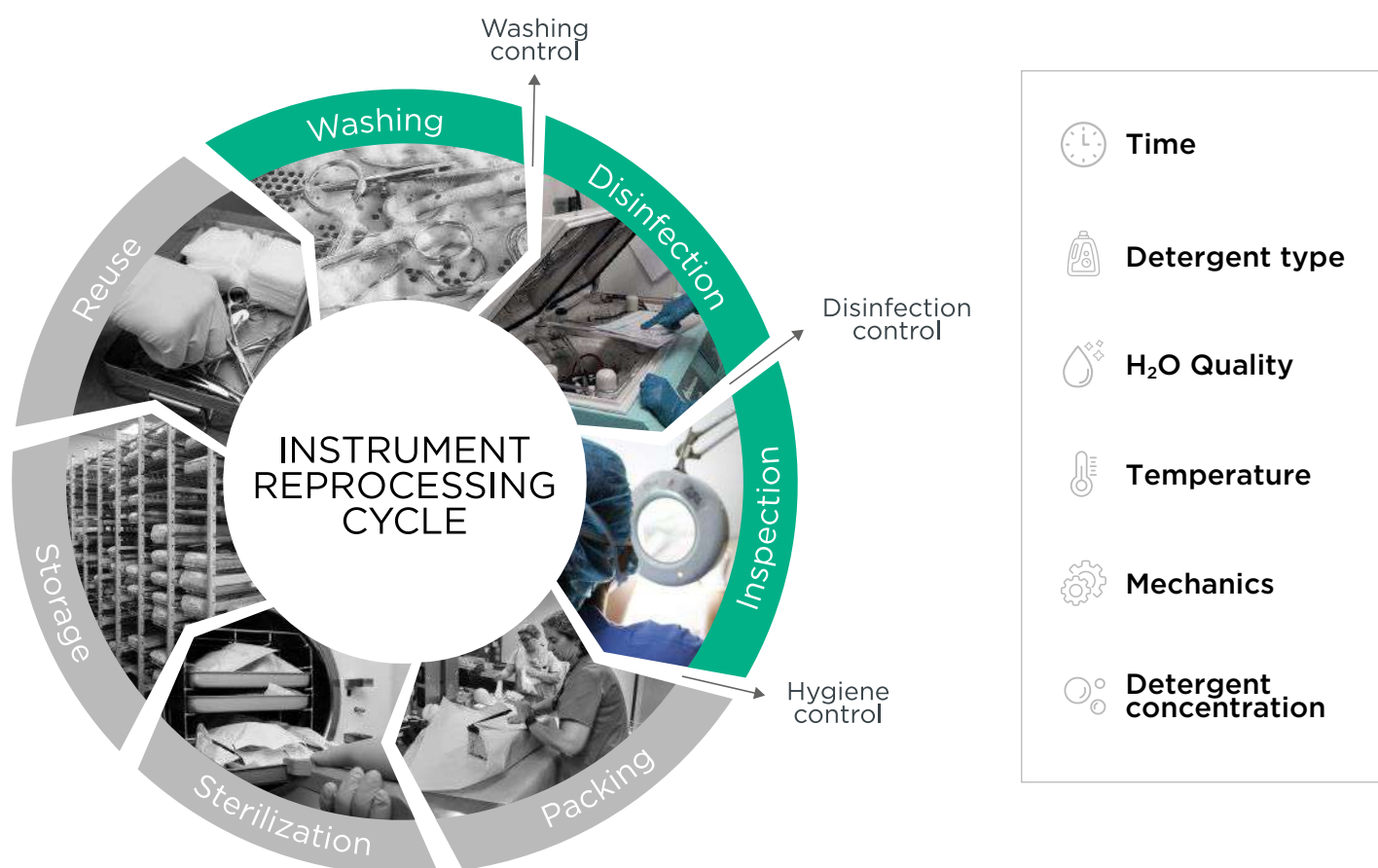


Perfect Cleaning Control System

A complete cleaning
monitoring system
for SPD/CSSD.

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 effectiveness of the entire sterilization cycle is at risk — directly impacting patient safety.



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.

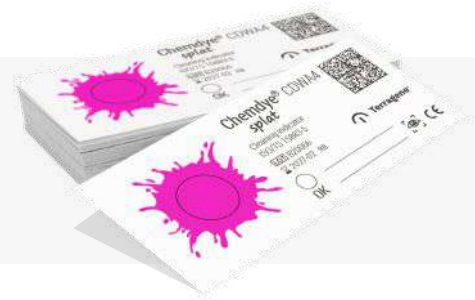


Get to know Chemdye® Splat

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

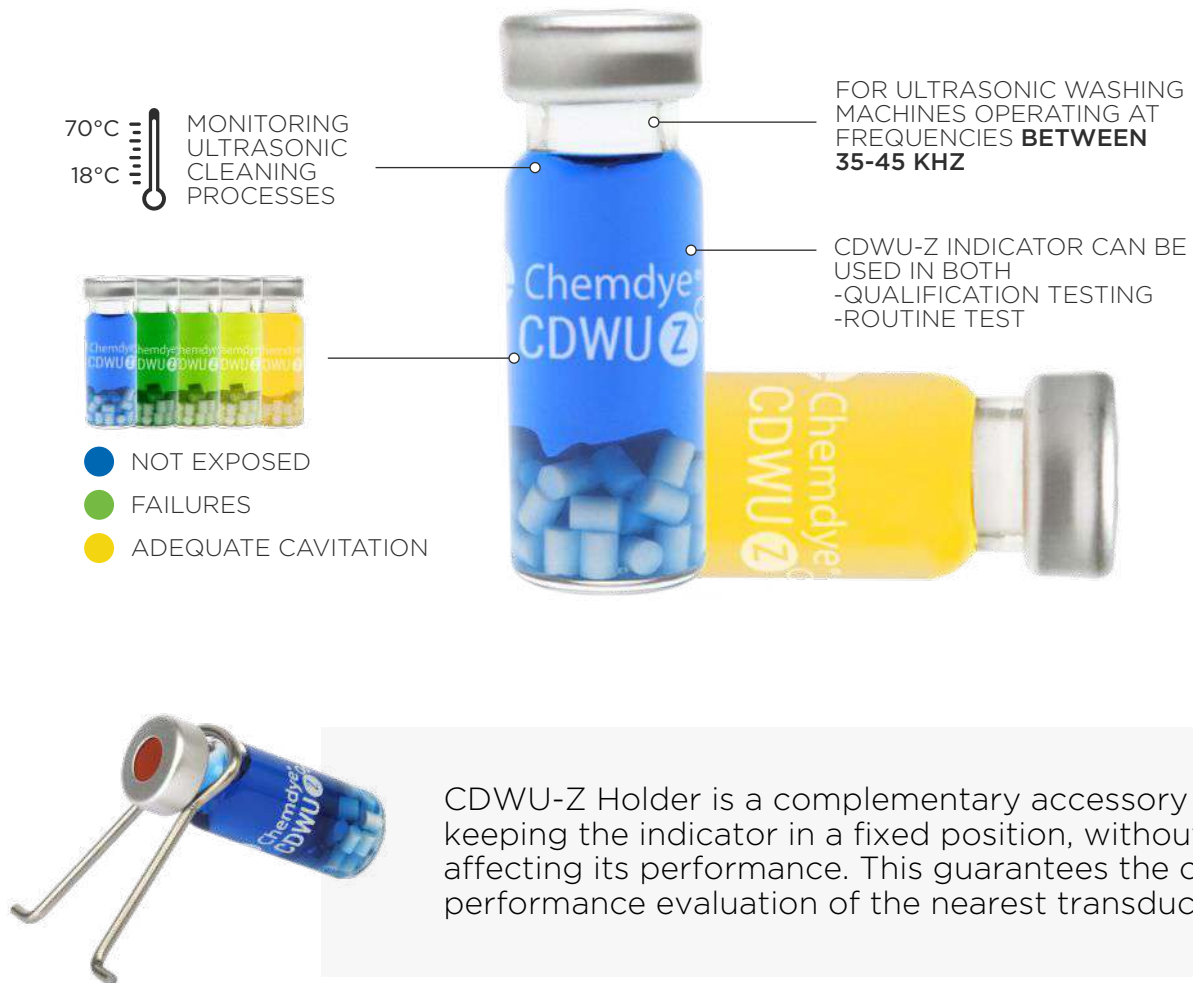
Failure and pass results do not refer to the effectiveness of the automatic medical washers/ultrasonic cleaners for cleaning a specific medical device.



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 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.



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

IT27W-1

IT27W-5

IT27W-10

Cycle conditions

1 min at 90 °C. or $A_0 = 600$

5 min at 90 °C. or $A_0 = 3000$

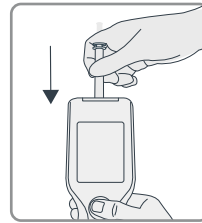
10 min at 93 °C (BGA/RKI/EPIDEMIC PROGRAM)
or equivalent. $A_0 = 12000$



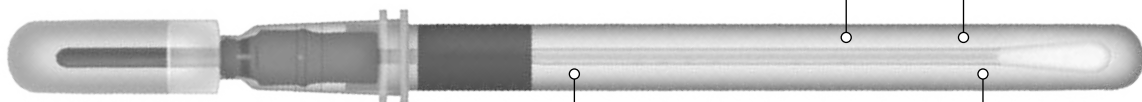
Common hygiene monitoring tools currently used:

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)

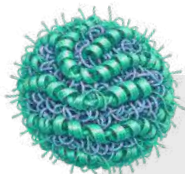


Non-protein based hygiene system

No virus nor prions detection

No color change validation

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.



Automatic traceability



Swab



Optional visual qualitative analysis

Shelf life: 24 months | 2-8 °C

4'
READOUT

WITH **MINI PRO**
AUTO-READER

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



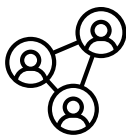
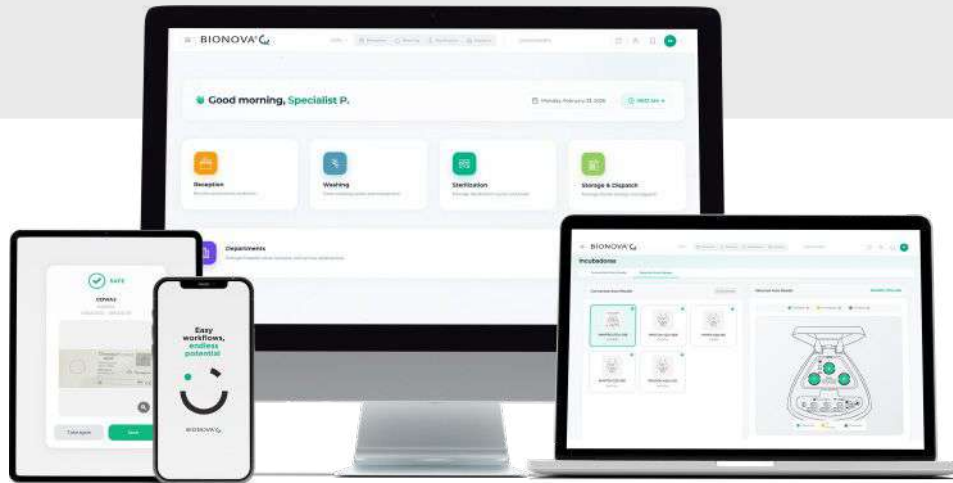
Compatible with MiniPro, IC10/20FR and IC10/20FRLCD auto-readers.

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



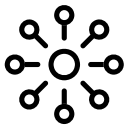
BIONOVA® Q

Terragene solution for streamlining process monitoring in the CSSD



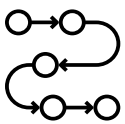
No delays, no miscommunication, just clean, connected data

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.



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.



Scan the
chemical
indicator



Automatically
AI reads and
interprets the
chemical
indicator



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