Always on Hand
to Help with Hygiene –
in Europe and around the World.

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Dr. Weigert Management System – Certified according to DIN EN ISO 9001/13485/14001

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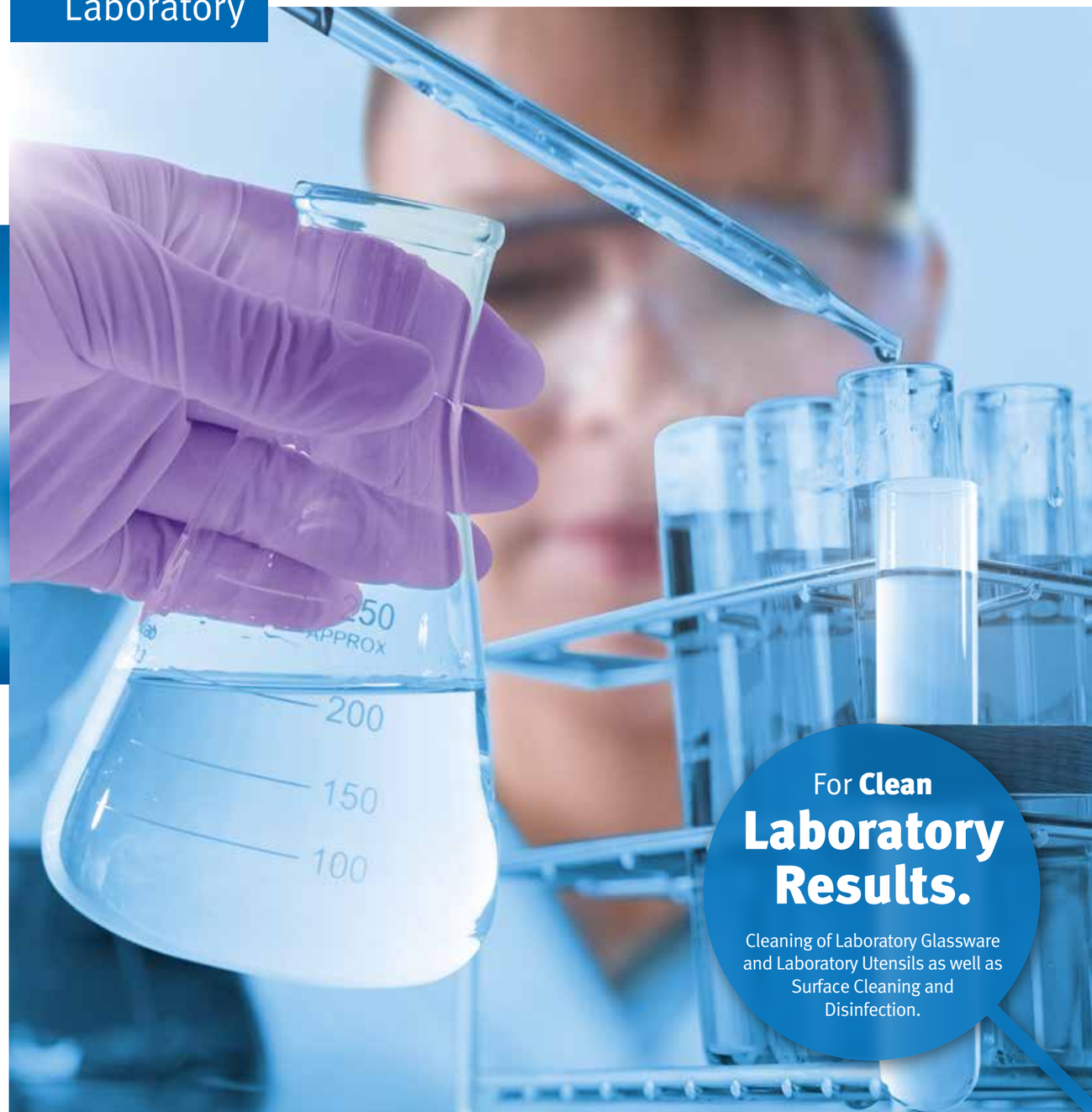
Laboratory



For **Clean**
Laboratory Results.

Cleaning of Laboratory Glassware and Laboratory Utensils as well as Surface Cleaning and Disinfection.

Use neodisher® for

Reliable Research & Analysis.

Our experience at work for you!

Dr. Weigert has done ground-breaking work for manual and automated cleaning of laboratory glassware, and is constantly setting new standards based on its decades of experience and its close collaboration with the manufacturers of laboratory glassware and washer disinfectors.

Residue-free cleanliness for precise laboratory results!

As well as looking clean, laboratory glassware should be free of residue so that it does not affect analysis results. Therefore, the aim of all cleaning is to obtain "pure" and "analytically pure" laboratory glassware and laboratory utensils.

The various tasks of laboratories involve many different types of soiling. This simple rule applies: precise measuring and analysis results can be obtained only if the purity of the equipment used is established and ensured.

Dr. Weigert is your trusted partner for all cleaning-related issues. Use of neodisher® process chemicals for manual and automated cleaning of laboratory glassware ensures excellent results for even the most exacting requirements. Dr. Weigert also provides numerous products that ensure residue-free cleanliness of the various surfaces in a laboratory environment.

Benefit from Dr. Weigert's expertise and "made in Germany" quality.

Ideally Prepared for All Applications.

Automated cleaning ...

... is an effective reprocessing process that can be standardised, validated and documented. First-rate process chemicals ensure perfect cleanliness with minimum application concentrations. What is more, selecting a detergent that is specifically geared toward the task in hand and preserves materials can make the materials used last even longer. Contact time with the cleaning solution can be minimised compared with an immersion bath. This prevents glass corrosion. Glass breakage also occurs less frequently in automated cleaning than in manual cleaning. As well as being a cost factor, glass breakage can also cause injuries. Consequently, choosing the automated reprocessing process improves protection of staff and the environment, saves time, eases staff workload and significantly reduces water and energy consumption.

Dr. Weigert is the leader in automated cleaning. Along with numerous process chemicals, Dr. Weigert provides modern dosing systems that ensure custom cleanliness for challenging tasks.

Manual cleaning ...

... enables targeted treatment of stubborn stains, and is the faster variant compared with automated cleaning if only single items of laboratory glassware need to be washed. In manual cleaning, the washing process is not always standardised, and is therefore flexible with regard to washing time and choice of detergent.
Dr. Weigert offers various process chemicals for manual cleaning that can be varied according to the requirement and the type of stain, and deliver outstanding results.

Surface cleaning and disinfection ...

... play a major role in all laboratories, as experiments and tests give rise to impurities in the working environment that may cause contamination of samples and substances. Thorough cleaning and disinfection of laboratory surfaces prevent individual process steps from being put at risk. Therefore, Dr. Weigert has developed various products for cleaning and disinfecting surfaces that provide the right solution depending on the type of soiling.

Something for All
Types of Soiling:
Dr. Weigert.

Research for your needs!

Dr. Weigert knows that requirements are constantly changing – that is why we are always working in our in-house laboratories to optimise the neodisher® products and keep them at the cutting edge. This commitment ensures that you can always rely on the effectiveness of our products.

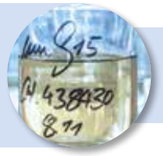
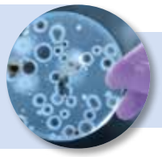
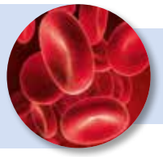
Always the right solutions for your individual needs.

As laboratories are used for so many purposes, a whole host of different types of soiling can arise. Therefore, choosing the right detergent is a key factor. This choice is geared towards the type of dirt to be removed, the washware material and the water quality on site.

Based on many years of experience, Dr. Weigert is familiar with cleaning requirements as well as the particular characteristics of each type of soiling. This expertise has enabled us to develop a product range that always gives you the optimum solution.

The right product for every challenge.

This overview shows typical types of soiling in various areas of research and activity and sets out examples of suitable detergents[1]:

Organic colouring agents e.g. felt-tip pen marks, pigment residue		**Alkaline universal detergent**	**neodisher® LaboClean FLA** 
Microbiology e.g. culture media, tissue residue		**Alkaline, surfactant-free detergent with active chlorine**	**neodisher® LaboClean FT** 
Cosmetics industry e.g. fats/oils, creams		**Highly alkaline intensive detergent with surfactants**	**neodisher® LaboClean LA** 
Food industry e.g. proteins		**Alkaline universal detergent**	**neodisher® LaboClean A 8** 
Petroleum industry e.g. crude oil, mineral oils		**Alkaline intensive detergent with surfactants**	**neodisher® LaboClean FM** 
Hospital, blood bank e.g. non-coagulated blood		**Alkaline detergent with good material compatibility**	**neodisher® FA** 
Water and environmental analysis e.g. inorganic salts		**Alkaline, phosphate-free detergent**	**neodisher® LaboClean UW** 
Nuclear medicine / isotope laboratory e.g. radioactive contamination		**Mildly alkaline detergent with oxidants**	**neodisher® LaboClean GK** 
Quick disinfection of surfaces e.g. noroviruses		**Ready-to-use disinfectant containing alcohol**	**neoform® Rapid** 

[1]All products are available in various container sizes.

The reprocessing cycle for laboratory glassware*

1. Analysis

The reprocessing cycle begins after an analysis has been performed. Here, the type of subsequent cleaning – manual or automated – is determined according to use of the laboratory glassware and laboratory utensils. Depending on the initial condition of the laboratory glassware, pre-treatment may be necessary.

2. Pre-treatment

Stubborn soiling can be prevented by emptying the laboratory glassware and laboratory utensils immediately after use, quickly rinsing them out and off, and, if necessary, dipping them in an aqueous solution with appropriate process chemicals.

In areas where work is performed with biological working materials, if the on-site conditions require it, the laboratory glassware and laboratory utensils including contamination should be sterilised after use and before cleaning.

3.1. Manual cleaning

In manual cleaning, liquid detergents are recommended as they dissolve more easily. When using powdered detergents, it must be ensured that the powder has fully dissolved before cleaning is started. In manual cleaning, no abrasive accessories (e.g. steel wool) should be used, otherwise it may cause surface damage to the glass. Soft sponges, cloths and brushes are suitable. After cleaning is finished, the glass should be washed with hot water and left to cool and dry in the open air.

3.2. Automated cleaning

The washed item is put into the appropriate compartment for the particular laboratory glassware. It must be ensured here that the glass items cannot move or collide with each other in the washing rack. The usual program sequences involve cleaning of the laboratory glassware first, followed by neutralisation and then rinsing. Disinfection must be performed if required. The laboratory glassware is then dried.

4. Visual final check

After automated or manual cleaning, a check is performed on the basis of the following criteria:

- **Cleanliness:** Visible deposits on the laboratory glassware and the laboratory utensils indicate a defective reprocessing process whose causes must be identified and rectified.
- **Degree of dryness:** Inadequately dried laboratory glassware is placed in the drying cabinet at 100 °C until fully dry.
- **Integrity:** Defective laboratory glassware must be collected in the containers provided and disposed of accordingly.

5. Storage

To protect against dust, storage in closed laboratory cabinets is required. To prevent surface damage, friction between different glass objects must be avoided. Important: The laboratory glassware should be stored in dry conditions and at constant temperatures between 20 °C and 30 °C.

Expertise in the entire reprocessing cycle

DR. WEIGERT

* For further information, order your personal copy of “Laboratory glassware reprocessing – Safe and residue-free reprocessing of laboratory glassware” by the Laboratory Working Group at www.aklab.de.

Always on Hand to **Provide Great Support: Dr. Weigert.**

Research & Development

For safe cleaning of laboratory glassware with outstanding results, Dr. Weigert uses the combined expertise of its specialist departments. Research & development in our own laboratories is standard practice at Dr. Weigert – only by doing this can we ensure long-term progress and keep on providing additional benefits for our customers. Yet research is not confined to the laboratory. We also carry it out on-site with the aim of attaining practical solutions.

Application Engineering

Based on decades of experience, outstanding specialist knowledge and close collaboration with the manufacturers of laboratory glassware, laboratory utensils, cleaning agents and disinfectants, we find the right answers to all questions quickly.

Analytics

Numerous factors are involved in an optimum cleaning outcome. Each year, we analyse over 1,500 water samples from our customers in 22,500 individual tests in our DIN EN/IEC 17025-accredited water-analysis laboratory. Numerous coatings and residues are also analysed by our experts. The results obtained enable us to give our customers tailored neodisher® application recommendations.

Products, expertise and service from a single source.

Hygiene & Microbiology

The specialists in our Hygiene & Microbiology department assess samples each day, devise application recommendations, conduct customer training sessions and seminars, support the work of our expert advisors and find new formulations for ground-breaking cleaning and disinfection concepts.

Dosing Technology & Systems Engineering

We develop practical solutions for dosing process chemicals into the washer disinfectors. Modern systems enable consumption tracking and flow control as well as remote transmission of data for monitoring correct processes and for batch documentation in the quality-management system.

Service & Advice

Our motto is “expertise from a single source” – a responsible local contact for all requirements. The in-depth training of our specialists ensures comprehensive hygiene advice and safe processes. We won’t leave you to deal with your hygiene problems and questions alone – our expert neodisher® advisors are always there for you.