

Residue-free cleaning with Extran®

Thorough, residue-free cleaning is essential for reliable processes. This applies to both: laboratories and production facilities. Make use of the since many years successful established Extran® of Merck Millipore.

Extran® is a reliable cleaning agent of consistent composition, so customers have the advantage of not having to frequently modify their processes and applications.

As international and national laws and regulations are becoming ever strict, many facilities are increasingly dependent on being able to prove residue-free cleanliness. For this purpose Merck Millipore's new photometric determination method provides a practical, easy to perform cleaning validation support.

Your Advantages

Quality

Extran® cleans reliably and prevents carry-over of residues to the next analysis, thus helping you to get the right results.

Reliability

Extran® cleaning agents are all time-tested products with long-term deliverability, so you won't have to frequently change your processes and applications.

Economical

Extran® is provided with a documentation service, thus directly supporting you by considering individual needs and by saving you time and money.



To ensure an effective cleaning validation, the following steps are pre-condition:

1. Validation of the analytical system that is used.
It needs to be assured, that the analytical system (e.g. the photometer) that is used, is capable to detect the residues in the range of concentration that is relevant for the desired cleaning validation.

2. Sample preparation.
Usually surfaces are analyzed due to their quantitative content of a desired analyte. With the sample preparation you transfer the analyte from the surface into solution where it can be analyzed quantitatively. The sample preparation should be included to the validation of the system to determine the recovery rate.

3. Analysis of the sample.
Any analysis needs to be reproducible and the procedure needs to be defined precisely. This steps are described at Merck Millipore's Application aid "Surfactants (nonionic) in Extran® rinse solutions".

Furthermore our Application aid "Analytical Quality Assurance, Standard for non-ionic Surfactants" describes the preparation of a standard solution for non-ionic surfactants.

Extran® is a general-purpose cleaning agent. It is free from scents, dyestuffs, does not contain chlorine or other highly toxic ingredients, thus helping to prevent smell nuisance and protect personal health. Furthermore, it is produced under strictly controlled conditions and fulfills the requirements of environmental protection. The active ingredients are biodegradable.

Trust in our longtime experience and make use of our high quality cleaning agents.



For further information, please see our brochure "Extran® – W283119", internet www.merckmillipore.com, or contact your local sales representative or your local Merck dealer or contact us at

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