

## Fraunhofer

# TESTED<sup>®</sup> DEVICE

Pfennig Reinigungstechnik GmbH MopScoop GMP

Report No. PF 2407-1539

Statement of Qualification

Single product
Riboflavin Test
(Equipment)





### **Statement of Qualification** • Single product

**Customer** Pfennig Reinigungstechnik GmbH

> Heubachstrasse 1 87471 Durach Germany

#### **Component tested**

Working Place and Operator Category:

Subcategory: Work Equipment

Product name: dosing system MopScoop GMP (manufacturing date: 2/7/2024; serial number: 3500702)

#### Cleanability test (riboflavin test)

Standards/Guidelines:

Test environment parameters:

Test procedure parameters:

VDMA information sheet »Riboflavin test for low-germ or sterile process technologies – Fluorescence test for examination of cleanability«. The norms stated generally refer to the version valid at the time of the tests.

### Laboratory

Test solution:	0.2 g riboflavin, 1.0 g hydroxethylcellulose
	in 1000 ml ultrapure water
• Application of test solution:	pump spray
Drying time:	approx. 2-3h
Cleaning method:	wiping
Cleaning medium:	ultrapure water
• Number of wiping cycles:	3
	λ = 366 nm

The cleanability is examined and assessed qualitatively. The assessement based on the amount and size of defects occuring.

#### Test result/Classification

The dosing system MopScoop GMP can be cleaned very well using a simple wiping procedure with ultra-pure water. The fluorescence test identified some critical areas. These areas require particularly thorough cleaning or a more elaborate procedure, such as the disassembly of certain parts before cleaning.

System component	Assessment of cleanability
Dosing system MopScoop GMP	very good
Cover red	good
Tub	good



The measuring devices used for the qualification tests are calibrated at regular intervals; their results can be traced back to national and international standards. In cases where no national standards exist, the test procedure implemented complies with the technical regulations and norms applicable at the time of the test. The relevant documentation can be viewed on request at any time.

Detailed information and parameters of the test environment can be found in the Fraunhofer IPA test report.

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PF 2407-1539 Report No. first document Stuttgart, January 15, 2025

Place, date of first document issued

Report No. current document

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