





## Fraunhofer TESTED® DEVICE Coroplast Coroflex Food Basic 3100 Report No. CO 1509-784

Statement of Qualification

**Riboflavin Test** 

## **Statement of Qualification**

## Customer

Category:

Subcategory

Product name:

Coroplast Fritz Müller GmbH & Co. KG Wittener Strasse 271 42279 Wuppertal Germany

Coroflex Food Basic 3100; 3 x 0.34 mm<sup>2</sup>

(manufacturing date: week 37/2015; color: orange;

serial number: 29-3100; external diameter: 4.3 mm)

Test result/Classification

The examination of cleanability of the cable system Coroflex Food Basic 3100; 3 x 0.34 mm<sup>2</sup> was investigated according to VDMA information test sheet. The following test result could be provided:



Residual fluorescence has been classified on the basis of a worst-case consideration. In the process, the following assessment was made according to the classification system used in VDMA information sheet:

0 = excellent1 = very good

2 = good

**Cleanability test (riboflavin test)** 

Standards/Guidelines:

**Component tested** 

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

Energy Supply

Cable Systems

Test solution:	0.2 g riboflavin, 5 g hydroxethylcellulose
	in 1000 ml ultrapure water
Application of test solution:	pump spray
	approx. 2-3h
Cleaning accessories:	cleanroom wipes
Cleaning medium:	ultrapure water
	λ = 366 nm

Cleanability can only be assessed qualitatively and is assessed based on the amount and size of defects occuring.

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.

For further information about the test environment and parameters, please refer to the Fraunhofer IPA test report.

Fraunhofer Institute for Manufacturing Engineering and Automation IPA

Stuttgart, March 20, 2016 Place, date of first document issued

Department of Ultraclean Technology and Micromanufacturing

Nobelstrasse 12 70569 Stuttgart Germany

Place, current date



Classification	
0 = excellent	
Overall result: excellent	

3 = weak 4 = very weak5 = none

on behalf of Ron

This document only applies to the named product in an unchanged state and is valid from the date of issue for a period of 5 years. The document can be verified under www.tested-device.com.

Frank Bürger, Project Manager Fraunhofer IPA