



**Fraunhofer**

**TESTED<sup>®</sup>  
DEVICE**

Roche Diagnostics GmbH  
MP2L joint seal  
**Report No. RO 1608-841**

DUPLICATE

Statement of  
Qualification

Chemical Resistance

# Statement of Qualification

**Customer**  
 Roche Diagnostics GmbH  
 Sandhofer Strasse 116  
 68305 Mannheim  
 Germany

**Component tested**

Category: Materials  
 Subcategory: Plastics  
 Product name: MP2L joint seal

**Chemical resistance test**

Standards/Guidelines: ISO 4628-1; VDI 2083-17  
 The norms stated generally refer to the version valid at the time of the tests.

Testing equipment:
 

- Microscope
- Camera

Test environment parameters: Temperature:.....22 °C ± 0.5 °C

Test procedure parameters:
 

- Immersion method
- Chemicals:..... Purified water 100 %  
 ..... Ethanol 100 %
- Incubation time: ..... 1 h, 3 h, 6 h, 24 h

**Test result / Classification**

The chemical resistance of the MP2L joint seal was classified according to ISO 4628-1 and VDI 2083-17 with the following result:

Chemical resistance	1 h	3 h	6 h	24 h
Purified water 100 %	0	0	0	0
Ethanol 100 %	0	1	2	3

The classification is based on a worst-case consideration. In the process, damage was assessed according to the classification system used in ISO 4628-1 and VDI 2083-17:

0 = excellent                      3 = weak  
 1 = very good                    4 = very weak  
 2 = good                            5 = none

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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

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on behalf of   
 Frank Bürger, Project Manager Fraunhofer IPA