



Centrifugation of TPP Tissue Culture Test Plate

Test performed with 92097 (96-well plate, U-bottom)

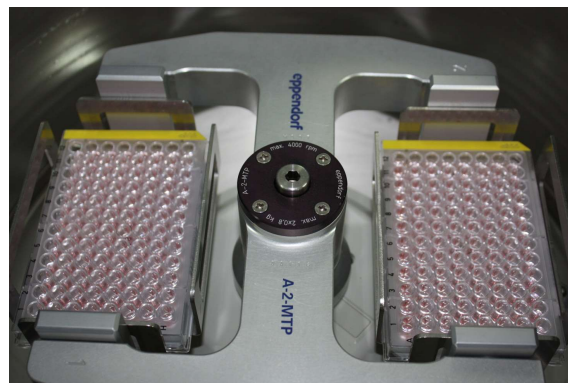
The stated RCF values were determined at room temperature using water-filled plates in a swing-out rotor for 5 minutes.



Medium: distilled water 20 °C



Wells filled with 60 µL



Centrifuge at 2'254 x g (RCF) for 5 minutes



No fractures or cracks visible from top



When backlit, there are no fractures or cracks visible below



Note on Filling Volume

The exemplary test results and the stated RCF of 2'254 x g were achieved using a filling volume of 60 µL per well. Please be aware that higher filling volumes increase the hydrostatic pressure and the total mass, which may affect the mechanical stability and performance of the plate during centrifugation. If your routine application requires higher volumes, a prior test run under your specific parameters is mandatory to ensure safe operation.

Centrifugation Safety and Performance for Well Plates

To ensure operational safety and optimal performance, always follow the centrifuge manufacturer's safety instructions and use appropriate rotors and centrifuge adapters.

- The use of suitable rotors and adapters is strongly recommended. Adapters must fully support the plates to ensure safe operation and optimal centrifugation performance.
- Ensure proper balancing and distribution in the centrifuge to prevent damage and guarantee optimal performance. Always balance opposing buckets or loads within the manufacturer's specified limits. Plates must be positioned symmetrically relative to the center of rotation and the bucket's pivot axis to maintain a horizontal position during centrifugation. Failure to do so may result in uneven separation, vibration, or damage.
- If higher revolutions per minute (RPM) are required and/or plates are to be stacked, perform a test run using a water-filled plate at the intended RPM and duration before routine use.
- The mechanical strength and performance of plates during centrifugation are influenced by several factors, including:
 - Material composition.
 - Proper fit within the designated adapter.
 - Centrifugation parameters: Temperature, duration, and Relative Centrifugal Force (RCF).
 - Sample properties (density and viscosity).
 - Rotor type (fixed-angle vs. swing-out).

Insufficient plate support or the use of liquids other than water may reduce the achievable RCF values. Please refer to the centrifuge manufacturer's specifications.

Before routine use, perform a test run under the selected operating conditions to confirm suitability for the intended application.

Please note that TPP does not guarantee the feasibility or suitability of TPP test plates for centrifugation.

Additional:

Instructions for use (IFU), chemical resistance lists, and quality certificates for each product are available for download from www.tpp.ch.

Technical Data

Component	Material
Lid	Polystyrene (PS)
Plate	Polystyrene (PS)



Measurement						
• Standard Case	92006	92012	92024	92048	92096	92097
• Small Case	92106	92112	92124	92148	92196	92197
• Multi Pack	92406	92412	92424	92448	92696	92697
Well count	6-well	12-well	24-wp	48-well	96-well	96-well
Base version	F	F	F	F	F	U
Length mm	128	128	128	128	128	128
Width mm	86	86	86	86	86	86
Height mm	22	22	22	22	17	17
Internal Ø mm	33.9	21.0	15.4	10.6	6.6	6.4
Recom. volume mL/well ^[1]	1.8 – 4.5	0.7 – 1.7	0.4 – 0.9	0.2 – 0.4	0.07 – 0.17	0.07 – 0.17
Max. volume mL/well	15.52	5.87	3.19	1.51	0.38	0.32
Growth area cm ²	9.026	3.464	1.863	0.882	0.342	0.0965

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