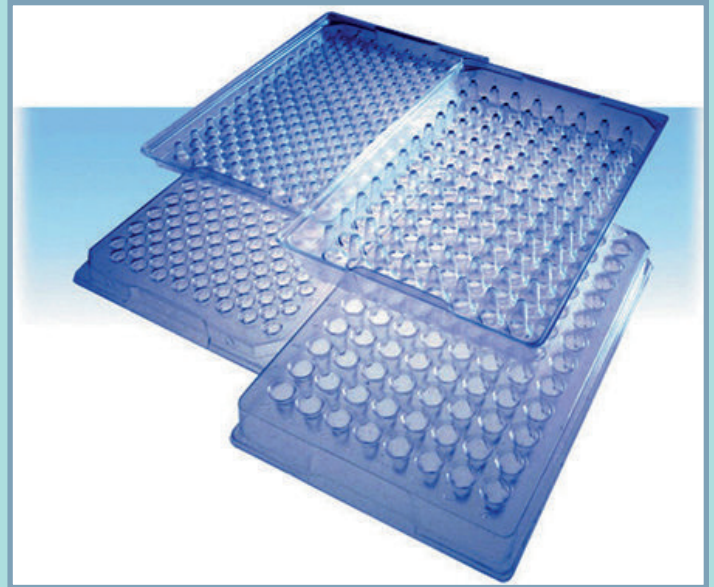




CASE STUDY: MICROTITRATION PLATES

Microtitration plates are widely used in the medical and biotech industries to analyze substances. Often these plates are made from cheap plastics, however when the analysis needs to be done at elevated temperatures, plates made from Makrofol[®] extruded polycarbonate films are the ideal solution. Makrofol[®] films are heat resistant to 135°C and adhesion of protein to the surface has been reported to be minimal.

Our polycarbonate films also have lower internal stress than competitor's materials. This means the wells can be formed quickly using a fully automatic high-precision thermoforming process. In this process the temperatures of the mold are controlled to within $\pm 3^{\circ}\text{C}$. This precise temperature control is what makes it possible to create the thin wall construction necessary for excellent heat transfer from the heating blocks to the substances being analyzed. The resulting product is a crack-free high quality plate with low stresses and low warping.



Company: Nelipak, Venray, Netherlands

Product: Makrofol[®] DE 1-4, Makrofol[®] PCEE, Makrofol[®] PCVE

Market: Medical

Attributes: heat resistance, minimal protein adhesion, low stress forming

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