

Healthcare Applications



Pregnancy Test

Porex gets proof-positive results with its design of a sample collection pad for a urine-based pregnancy test. One of the product's main components, the pad improves the overall performance and speed of the test.



Design Challenge

In the design of a rapid assay test there are four main components: the sample collection pad, the conjugate release pad, the assay test strip, and the absorbent sink. Each component has its own function. In a recent development for a urine-based pregnancy test Porex was called upon to produce a sample collection pad. The pad needed to offer rapid transfer of sample to the actual assay test strip. The goal was to produce a wick that optimized and matched the time and quantity of required sample flow.

Solution

Porex chose to use fiber technology to address the problem. Porex fiber technology allows for very longitudinal pores which in turn promotes fast wicking speed in a preferential direction. Therefore, by selecting the appropriate fiber weight, fiber type, and fiber size - the pore size of the sample collection pad and its corresponding wick rate was optimized.

Results

By adjusting the pore size and the hydrophilic treatment process Porex was able to not only match the performance required but also provide a more consistent product the benefit of which improved the overall performance and speed of the test.

By combining ideas, know-how and proven results with the highest standard of innovation and excellence, POREX Porous Media provides unique solutions for various applications.

POREX

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