FAQ: Physical Properties & Formats

Q1: ARE CELLEVATES SCAFFOLDS REUSEABLE?

A: No. Cellevates scaffolds are single-use, disposable products.

Q2: DOES CELLEVATES SCAFFOLDS HAVE AN EXPIRATION DATE?

A: No. However, for optimal results we recommend using the scaffolds within one year of purchase.

Q3: ARE CELLEVATES SCAFFOLDS CHEMICALLY RESISTANT?

A: This is dependent on the chosen scaffold material. Certain chemicals may affect the fibers. Organic solvents such as acetone will deteriorate the fibers.

Q4: WHAT FORMATS ARE AVAILIABLE?

A: Cellevate offers a great variety of formats for cell culturing. All our scaffolds are available in both random- and aligned fiber orientation. Our single well dishes as well as 4-, 6- ,12- and 24-well culture plates consists of removable inserts that allows for easy imaging. Larger formats (48, 96 and 384) are designed with scaffolds fused to the multiwell-plate frame for easy handling and are suitable for larger screening experiments. Furthermore, Cellevates 3D scaffolds are available mounted on crown inserts (without substrate backing) or as chamber slides. Alternatively, the scaffolds can be delivered as sheets in custom size or precut to fit your needs. All plates and dishes are of standard dimensions and are compatible with standard laboratory plate readers and instruments.

Q5: WHAT ARE THE SCAFFOLDS MADE OF?

A: We have a large variety of materials to choose from, depending on the customer needs. Our standard scaffolds are made from synthetic, biocompatible polycaprolactone (PCL).

Q6: ARE OTHER SCAFFOLD MATERIALS AVALIBLE?

A: Yes. The engineers at Cellevate have experience working with a wide range of materials (synthetic and natural) such as: poly-lactic acid (PLA), polyvinyl-alcohol (PVA), polyamide-6 (nylon-6), polyvinylidene difluoride (PVDF), gelatin etc. Cellevate does provide custom scaffolds based on your experimental needs. We can create custom scaffolds and tune characteristics such as material, fiber diameter, pore size and thickness to best suit your specific requirements. Do not hesitate to contact us and we will discuss a specific solution that works for you!

Q7: ARE CELLEVATES SCAFFOLDS BIODEGRADABLE?

A: Yes, most of the materials we work with are biodegradable. PCL is biodegradable via hydrolysis, however in vitro the time for this is usually too long to be taken into account, and the structures can be treated as more or less inert.

Q8: WHAT IS THE PORE SIZE OF THE SCAFFOLDS?

A: The pore size and porosity can be tuned to fit your specific needs. Most scaffolds have a pore size ranging from a few to hundreds of microns.

Q9: WHAT ARE THE FIBER DIAMETERS?

A: The fiber diameter is something we tune to your needs, depending on the cell type och analytical methods you are going to use. We can manufacture fibers with a diameter between 50 nm to 5000 nm.

Q10: HOW IS BATCH-TO-BATCH CONSISTENCY ADDRESSED?

A: Cellevate produces nanofibers through a unique variation on electrospinning, allowing for precise fine-tuning of fiber parameters and excellent batch-to-batch consistency. Furthermore, all our products go through rigorous evaluation to assure the quality of each unit.