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We design, grow, and assemble collagen

Our Materials

Welcome to the biofabrication age.

Growing leather without an animal might seem futuristic but at Modern Meadow we're making it reality.

Biofabrication enables us to grow nature's materials using living cells instead of animals. We grow collagen,

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we design and engineer the material to deliver the right structural and aesthetic properties. We then tan and finish it through an efficient, ecologically mindful process to give the material its final character.

HOW WE DO IT



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RAW MATERIALS

What is leather?

Leather is the tanned skin of an animal. Cow, pig, sheep, alligator and more. Regardless of animal type, the main component of skin is collagen. The resulting hide is constrained by the size and shape of the animal while its quality is dictated by how the animal is raised.

Leather has traditionally been used in shoes, in accessories like bags, in furniture, and in transportation: from luxury car interiors to commercial airliners. Our animal-friendly, biofabricated leather can be

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begin where traditional leather ends.

PROCESSING

What is tanning?

Tanning is a chemical process that preserves the skin against decay, makes it supple when dry, and creates the final finished aesthetic. The tanning process starts with the beamhouse operations. This is where the animal skin is stripped of its hair, flesh, and fat. It's the most chemically intensive part of the process.

At Modern Meadow we only practice the final stages of tanning. We preserve the skin and then treat it to achieve the required suppleness and finish. Less water, less energy, less chemicals.



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leather atelier...

Picture the strength of kangaroo leather but with the delicacy of snake...or the aesthetic of crocodile but the suppleness of lamb. Imagine if we could select the animal DNA of your choosing. Woolly mammoth? Not impossible.

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