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BSF Enterprise PLC
21 May 2025

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BSF Enterprise PLC

Lab-Grown Leather Ltd Progress

BSF Enterprise PLC (LSE:BSFA) a leading innovator in tissue-engineered materials is pleased to announce significant progress in its 100% owned subsidiary, Lab-Grown Leather Ltd ("**LGL**"), a pioneer in the development of sustainable, high-quality, lab-grown leather. LGL is applying its patented advanced tissue engineering platform (**ATEP**™) to create leather alternatives for high-value markets, including luxury goods, aerospace, and automotive.

Product Development Highlights

LGL is developing three core product lines:

Elemental Leather™: Premium, high-end luxury leather, identical in feel, look, and smell to traditional leather. It is 100% lab-grown, free of scaffolds and additives.
Elemental+™: High-performance, lightweight, and thin new-age leather.
Elemental X™: Novel leather enabled by engineering biology, AI, and a proprietary cell expression system. This includes the groundbreaking T-Rex leather.

Elemental+™: New Ultra-Thin and Strong Leather

LGL has achieved a significant breakthrough with Elemental+™. Traditional animal leather loses integrity and strength when processed below 0.4mm. However, Elemental+™ can be produced at an astonishing thickness of just 0.04mm - a hundred times thinner than the thickest traditional leather-while maintaining comparable strength and durability. This has been achieved using vegetable-derived tanning components, making it more environmentally friendly. This innovation, and associated new patent filing, opens new possibilities for applications in sectors where weight is critical, such as sportswear, electric vehicles, and aerospace.

Dr Che Connon of Lab-Grown Leather Ltd. stated, "Elemental+™ is a testament to the power of our Advanced Tissue Engineering Platform and our commitment to pushing the boundaries of what biofabricated materials can achieve. We've engineered a new form of leather that retains the desirable properties of traditional leather while offering a level of thinness and strength previously unattainable. This opens up entirely new design and functional possibilities for industries where every gram counts."

Elemental X™: T-Rex Leather

LGL has also made substantial progress with Elemental X™, including the development of T-Rex leather. This world-first material, to be derived from synthetic T-Rex DNA, has garnered significant media attention. The leather will be grown in LGL's facilities in Newcastle upon Tyne, UK. Unlike other producers, LGL's finished leather contains no synthetic scaffolds or plastics. Elemental X leather can be made from unlimited species

types (past or present). In collaboration with The Organoid Company and VML, a subsidiary of WPP plc, we will promote and scale the Lab-Grown T-Rex Leather product. Given its unique nature and limited initial availability, T-Rex leather is expected to be exclusive and priced at a substantial premium.

Media around the announcement has been a global hit covering an audience of over 500M, a 2.5M estimated print circulation, 38 individual articles and over 2.5K likes, comments and shares on social media platforms, with a predicted view of 1.75M

Following this we have had 3 commercial conversations with new leads in fashion and accessories which are ongoing with a view to partnering to produce the world first T-rex leather product.

Traditional Leather Partnerships

LGL in 2025 has established a working partnership with another significant fashion brand and is currently continuing to work with three other major fashion brands. These brands are paying LGL to produce samples for assessment and development. Progress is being made confidently, albeit at a measured pace, with these samples being tested and assessed.

To date eight 10x10cm^2 samples have been sent out this year to multiple companies, as part of an iterative process their supportive feedback has resulted in notable improvements to the Elemental Leather^{TM} product to further improve the look, feel and suitability for down-stream processing.

Continuous improvement

LGL production plans are set for significant growth and 3DBT's City-Mix™ media additive will offer substantial savings. Over next 5 years the purchase and use of City-Mix™ from 3DBT will save Lab-Grown Leather Ltd over £500k in tissue production costs, helping to further bring down the cost of the Elemental Leather™whilst representing an additional revenue stream for 3DBT.

Contact Information For further information, please visit: www.bsfenterprise.com

For further enquiries, please visit www.bsfenterprise.com or contact:

About BSF Enterprise PLC

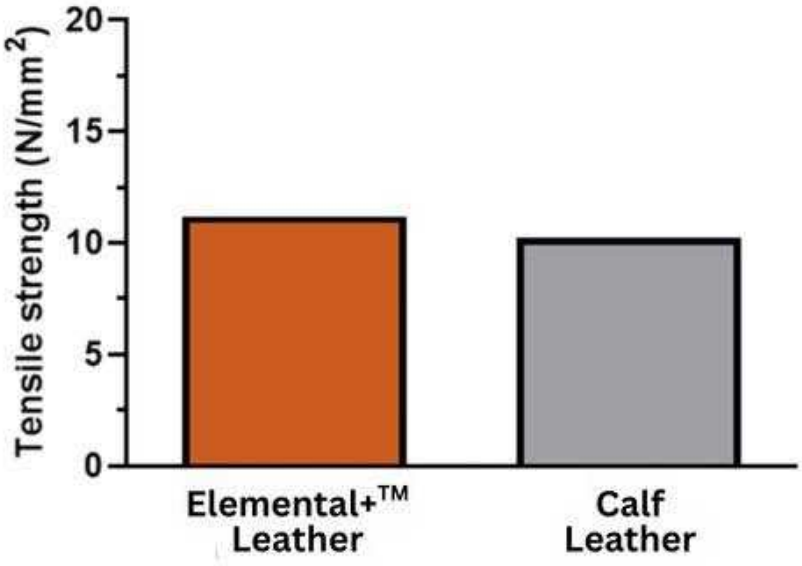
BSF Enterprise PLC (BSF) develops and commercialises cutting-edge tissue-engineered solutions, including lab-grown leather, cultivated meat, and corneal repair technologies. By leveraging its proprietary scaffold-free platform, BSF aims to deliver sustainable alternatives to traditional materials and meet global demand for environmentally responsible innovations.


Lab-grown Skin
10 µm


Animal Skin
10 µm


RESET
HOLD
in/mm TOL





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