# NANOFORM'S CESS® TECHNOLOGY - A COST LEADER VS SPRAY-DRIED AMORPHOUS SOLID DISPERSIONS (ASDS)

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***Nanoform's next-generation CESS® platform delivers cost leading economics, improved formulations over conventional spray-dried ASDs, with significantly higher drug loading, and commercial-scale environmentally friendly manufacturing processing.***

**HELSINKI, Finland** – Nanoform today announced the cost leadership position of its CESS® technology, the culmination of more than a decade of scientific, engineering and manufacturing innovation leading to a cumulative scale up factor of more than one million.

Spray-dried ASDs have been the pharmaceutical industry's preferred technology for improving the bioavailability of poorly soluble small molecule medicines. However, they often require significant quantities of polymers, organic solvents, and complex downstream processing which all adds to their cost position. CESS® changes that equation by providing highly competitive manufacturing economics through smart manufacturing, similar or better performance than ASDs with lower pill burden, and less environmental impact.

"Historically, pharmaceutical companies have accepted trade-offs between performance, sustainability and cost," said Christian Jones, CCO of Nanoform. "CESS® demonstrates that those trade-offs are no longer necessary. We believe Nanoform is now uniquely positioned as a value leader, environmental leader and increasingly a cost leader. Based on recent business intelligence we believe that Nanoform's CESS® process is now significantly more cost effective than either European or US based spray dried dispersions and potentially even below Asian low-cost spray drying."

**Cost Leadership**

Over the past decade, Nanoform engineers have transformed CESS® from a lab-scale process into a commercial manufacturing platform producing kilograms per hour and supporting multi-ton annual production. Nanoform offers both clinical and commercial GMP CESS® capacity in Helsinki, Finland.

Compared with spray drying, CESS® offers lower cost of goods, high yields, lower investment requirements, reduced excipient usage, simplified downstream processing, and a manufacturing architecture designed for efficient commercial-scale production. Nanoform believes this progress positions CESS® to compete directly with conventional spray-drying economics while delivering superior product characteristics.

**Value Leadership**

Nanoform has demonstrated that nanocrystalline formulations produced using CESS® can deliver exposure comparable to marketed ASD products while enabling dramatically higher drug loading. In programs such as nanoenzalutamide, Nanoform increased drug loading from 12% in the marketed ASD benchmark to 40%, enabling much smaller dosage forms and reduced pill burden for patients.

The result is the potential for at least comparable pharmacokinetic performance, fewer and smaller tablets, reduced excipient burden and differentiated product profiles that create value throughout the product lifecycle.

**Environmental Leadership**

Conventional spray drying commonly relies on substantial volumes of organic solvents including methanol, ethanol, acetone, dichloromethane and DMSO, whereas CESS® only utilizes recycled pharmaceutical-grade carbon dioxide as its processing medium. The technology can substantially reduce or eliminate solvents, polymers, and excipients while simplifying manufacturing operations.

The combination of recycled $CO_2$, reduced raw material consumption, and streamlined processing creates one of the pharmaceutical industry's most compelling sustainability propositions while simultaneously improving manufacturing economics.

**A New Generation Beyond Spray Drying**

"First Nanoform became a value leader through improved patient-centric formulations. Then we became an environmental leader through our sustainable $CO_2$-based platform. Through years of process intensification, scale-up and engineering innovation, we are now establishing cost leadership as well," concluded Jones.

"Spray drying transformed formulation development over the past twenty years. We believe CESS® represents the next generation: at least comparable performance, higher drug loading, more sustainable and competitive economics in a single platform."

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About Nanoform

Nanoform is the medicine performance-enhancing company that leverages best-in-class innovative nanoparticle engineering technologies, expert formulation, and scalable GMP API manufacturing to enable superior medicines for patients. The company focuses on reducing clinical attrition and on enhancing drug molecules' performance through its nanoforming technologies and formulation services, from pre-clinical to commercial scale. Nanoform will help improve bioavailability and drug delivery profiles, drive differentiation, patient adherence and extend the lifecycle potential of products. Nanoform' s shares are listed on the Premier-segment of Nasdaq First North Growth Market in Helsinki (ticker: NANOFH) and Stockholm (ticker: NANOFS). Certified Adviser: DNB Carnegie Investment Bank AB, +46 8 588 685 70, **certifiedadviser@dnbcarnegie.se**. For more information, please visit www.nanoform.com.

Nanoform forward-looking statements

This press release contains forward-looking statements, including, without limitation, statements regarding Nanoform's strategy, business plans and focus. The words "may", "will", "could", "would", "should", "expect", "plan", "anticipate", "intend", "believe", "estimate", "predict", "project", "potential", "continue", "target" and similar expressions are intended to identify forward-looking statements, although not all forward-looking statements contain these identifying words. Any forward-looking statements in this press release are based on management's current expectations and beliefs and are subject to a number of risks, uncertainties and important factors that may cause actual events or results to differ materially from those expressed or implied by any forward-looking statements contained in this press release, including, without limitation, any related to Nanoform's business, operations, clinical trials, supply chain, strategy, goals and anticipated timelines, competition from other companies, and other risks described in the Report of the Board of Directors and Financial Statements for the year ended December 31, 2025 as well as our other past disclosures. Nanoform cautions you not to place undue reliance on any forward-looking statements, which speak only as of the date they are made. Nanoform disclaims any obligation to publicly update or revise any such statements to reflect any change in expectations or in events, conditions or circumstances on which any such statements may be based, or that may affect the likelihood that actual results will differ from those set forth in the forward-looking statements. Any forward-looking statements contained in this press release represent Nanoform's views only as of the date hereof and should not be relied upon as representing its views as of any subsequent date.

**Attachments**

**Nanoform's CESS® technology - a Cost Leader vs Spray-dried Amorphous Solid Dispersions (ASDs)**