

Three Hosts – One Platform: Scalable Protein Expression for Industrial Enzymes, Precision Fermentation and Biopharma Applications

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Abstract:

Picea Biosolutions has developed a versatile multi-host expression platform utilizing *Trichoderma reesei*, *Pichia pastoris*, and *Bacillus subtilis*. This system enables efficient and flexible production of a broad range of proteins — from industrial enzymes for food and feed applications to precision fermentation targets and complex biopharmaceuticals such as VHHs, antibodies, and growth factors. The platform combines high expression titers with adaptability, supporting rapid and cost-efficient development of novel protein products.