



Precision biomanufacturing of complex biomolecules

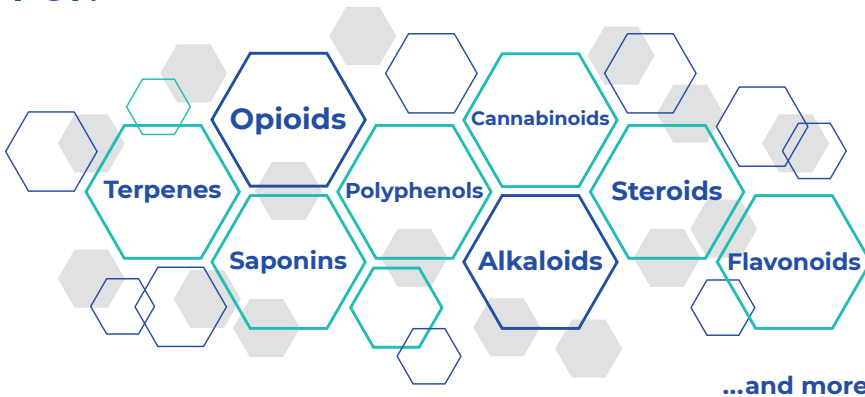
Samabriva's versatile platform combines the advantages of:

Plant-based systems (cost effective and animal free).

Traditional biomanufacturing systems (controlled and contained environment).

Taking plant-based production out of the factory out of the field and into the factory.

For:



Samabriva's bioproduction is the more sustainable and predictable way to make high value biomolecules all year round, in any location.

Cost

Samabriva's bioproduction process offers consistent, cost competitive pricing for producing APIs. Our process is predictable, requires fewer steps, uses zero light or heat and could generate a ~10,000-fold increase in yield.

Sustainability

By taking-based production of APIs out of the field and into the factory, Samabriva's innovative bioproduction process dramatically reduces CO₂ output compared to current methods. Manufacturing APIs in bioreactors removes the need for arable land and greenhouses.

Control

Overcome long and complex supply chains by producing high value biomolecules where they're needed. By taking plant-based production out of the field and into the factory Samabriva's innovative bioproduction platform removes API supply chain worries.

Clone development



Plant selection and genetic engineering (stable transformation if required) and generation of hundreds of hairy root clones.



Selection of the highest producing hairy root clone, amplification and optimization. Implementation of Research, Master and Working 'Root' Banks (cryoconservation of the clone at -196°C).



Developing a highly productive, stable root clone.

Manufacturing



Up-scale and culture in single-use bioreactors (1000L-scale).



Concentration and purification.



Design of an industrial process ready for routine use (from grams to tons of molecules).

For more information visit: www.samabriva.com

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