

## Booster Kit for Enhanced Protein Production

- **TECHNOLOGY:** Proteins, like hormones and antibodies, serve as important biotherapeutic agents. Novel biotherapeutic agents and their follow on products, biosimilars, require mammalian cell lines for large scale production. Often the yield of protein production is very low, leading to higher cost of production per unit of biologics. The current platform technology boosts protein production from Chinese Hamster Ovary (CHO) cells. The proof-of-concept demonstrates a significant increase in Erythropoietin and Darbepoetin-alfa levels at the cell culture flask level. In principle, this technology can be expanded to other proteins of interest and other cell lines.
- **DOMAIN:** Biologics and Biosimilars
- **APPLICATIONS:** Recombinant version of biotherapeutics are produced in mammalian cell lines, like CHO cells, for clinical use in humans. The current technology is a reagent which upon application to existing CHO clones results in increased production of desired protein by up to 300% within 2-3months of transfection. The technology boosts levels of desired protein by removing destabilizing agents from the culture system.
- **ADVANTAGES:** The technology drastically improves effective yield of desired protein without compromise on quality.
- **IP STATUS:** PCT/ IB2019/ 052213 filed in Oct 2020

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