



Pharmaceutical applications – an advanced drug delivery system

Pharmaceutical grade mesoporous magnesium carbonate (MMC) is denoted Pharma-MMC, is an optimized and defined variant of the regular MMC material. Pharma-MMC is a proprietary, patent-protected drug delivery platform.

Our current goal is to develop the innovative Pharma-MMC platform to meet current regulatory requirements and to clinically demonstrate the concept

Properties of Pharma-MMC

- Pharma-MMC enables novel drug product formulations and improved versions of previously approved products.
- Poor water solubility of drugs is one of the major challenges facing the pharmaceutical industry. Amorphous drug delivery is therefore the “new big thing” within the pharmaceutical industry. Pharma-MMC addresses the challenge and meets the demand by offering unique opportunities of amorphous drug formulations.
- The amorphous form of a drug substance has better solubility and dissolution rate than the corresponding crystalline form.
- Pharma-MMC enables superior drug-load of up to 50% w/w.
- While the amorphous form of a drug typically lacks stability at storage, Pharma-MMC delivers long-term amorphous stability of loaded drugs (>12 months).
- The proprietary drug delivery platform based on MMC is named pharmaceutical grade mesoporous magnesium carbonate (Pharma-MMC). Pharma-MMC has an exceptionally good drug loading capacity and is optimized for industrial processing.
- The process properties meet stringent industry requirements.
- The manufacturing process will meet current regulatory requirement (GMP).

Timeline

- 2018: Evaluate potential products candidates, initiate drug development program, initiate scale-up program.
- 2019: Establish manufacturing of Pharma-MMC according to current Good Manufacturing Practice (cGMP), making Pharma-MMC ready for clinical trials.
- 2020 - 2021: Enter clinical phase, establish drug product pipeline.

For further information, please contact:

Jenny Andersson Collby, Marketing Director

Email: jenny.collby@disruptivematerials.com

Mobile: +46 73 591 9818