



Technology platform for the application of poorly soluble APIs

More than 70% of new drug substances show poor solubility in water or physiologically relevant media and are therefore inefficiently resorbed by the human body. In order to bring these chemical and biochemical entities to the target site in sufficient quantities, innovative technological approaches in the formulation development are required.

Nanotechnology approaches like drug nanocrystals show very high potential in increasing solubility, blood plasma levels as well as bioavailability and can furthermore reduce undesired side-effects. Besides drug nanocrystals, HWI has thorough expertise in the development of parenteral solutions and suspensions, nasal gels and hydrogels as well as inhalative dry powder formulations.

HWI has developed a concept for an isolator-based wet ball milling process for the development and production of sterile micro- and nanosuspensions as well as sterile micro- and nanoemulsions in cooperation with Netzsch and ART.

An innovative isolator-based filling unit for the highly flexible filling of vials, carpules, syringes and eye-droppers under aseptic conditions completes the nano-sterile concept of HWI.



The nano-sterile concept brings a highly innovative extension to HWI's wide service portfolio and adds yet another piece to HWI's one-stop-shop approach.

For further information visit www.hwi-group.de

