THE GROUP

CSV Life Science over the years has built a group of companies and professionals able to provide integrated solutions to the pharmaceutical market.

The know-how and skills of CSV's specialists can ensure the success of a project from the early stages from the strategic decisions up to the development of engineering activities, processes development to contain all the exposed operations to the construction up to final validation.

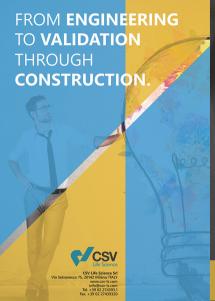


Engineering | Construction | Compliance | Containment | API & Intermediate | Validation



THE RIGHT PLATFORM, PEOPLE AND KNOW-HOW FOR SAFE HIGH-POTENCY APIS CONTAINMENT.







HPAPIs SOLUTIONSTO MEET ALL YOUR NEEDS

www.csv-ls.com

THE HPAPIS CHALLENGE

Highly potent active pharmaceurical ingredients (HPAPIs) represent a significant shift in the pharmaceurical market. This change has not only led to a pipeline of more effective medicines that require lower doses and lead to fewer side effects, but



OUR KNOW-HOW

Our know-how both in the pharmaceutical and chemical industries brings our clients total peace of mind, in the knowledge that they can rely on a complete solution with a waverpipic integration of validation and engineering expertise. It has likewise gained us recognition for delivering the benefits of validation senices that are mainly orientated to resolving rather than simply identifying any non-con-















Each production phase has to be carefully evaluated as for its related risk

The working environment is the sum of the room, the equipment and the The working in it. According to regulatory guidelines, it is necessary to adopt suitable protections for the working space and the equipment, in order

CSV Life Science is an ideal partner for companies seeking the highest stan-

Our team understand the realities of the pharmaceutical and chemical engi-neering fields and develop tailoned solutions using innovative and flexible con-

CSV remains faithful to the principles on which our company was founded: BETTER PERFORMANCE THROUGH RESEARCH AND INNOVATION.

tainment technology, all specially designed for HPAPIs production plants.

CSV Life Science is an area partner with outstanding operating flexibility. CSV has the experience and specialist to provide integrated solutions covering the

to facilitate as far as possible the free movements of the workers















We can evaluate the toxicity of the substance in order to select production units and processes that are optimally suited to the product hazards. Once workplace limits have been defined for a chemical. thereby minimising investment and operating costs. · Collection and analysis of toxicological data









Our process engineering, based on toxicology conclusion, can define the right exposure control strategy to target the identified CPT/OEL. These services, starts from a safety risk assessment to



We can design and realize concept identified during the exposure control practice. Layouts, P&dDs and to operating, cleaning and maintenance, as well as,



while on 2015 represents THE CHARGEPOINT sold

CONTAINMENT TESTING (SMEPAC) We offer services for testing performed according to ISPE's SMERIC quideline (Standardised Measure-

 Sampling and validation plan design
SMEPAC and validation protocol development ment of Equipment Particulate Airborne Concentra- Containment system FAT/SAT and installation tion), starting from laboratory scale for process SMEPAC and validation research up to large scale manufacturing.



* PAID GMP and safety review

· OFLs assessment review Batches sizes identification

· Material and personnel flows



· Preliminary survey discussion, front end design Containment engineering
3D modelling, mock-up and ergonomic test

· Design review and manufacture · Flexible containment

Rigid isolator
CSV drum iris technology









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