



Design Success

DASware® design software—Applies Design of Experiments to bioprocesses

»Perfect companions: Design of Experiments and parallel bioreactor systems.«



The route to effective bioprocess development

Design of Experiments (DoE) is a structured method to investigate the influence of critical process parameters, interactions, and dependencies in bioprocess development. In later manufacturing it streamlines post-approval changes and regulatory processes.

In early process development DoE is a time- and cost-effective way for clone and cell line screening or media optimization. Parallel cultivation systems fully support seamless DoE approaches.

Design your success through successful process design.

A reliable concept and diverse capabilities

The DASware design software was developed to apply DoE concepts to bioprocessing. It is part of the DASware software suite for comprehensive bioprocess management.

The Eppendorf DASbox® Mini Bioreactor Systems and DASGIP® Parallel Bioreactor Systems are ideal platforms for easy implementation of Design of Experiments in bioprocesses. The simultaneous operation of multiple bioreactors saves time, reduces manual operations and eliminates reproducibility issues. Parallel bioreactor systems ensure defined and controlled process conditions to facilitate the screening of bacteria or cell cultures, and the optimization of media or substrate quantities on small scale.



DASware design: Accelerate your bioprocess development by Design of Experiments.

Full factorial design

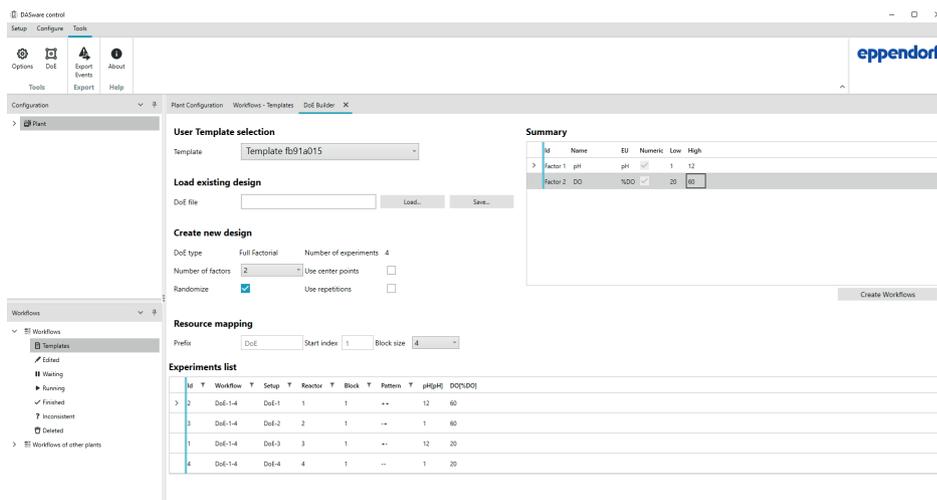
DASware design comes with a full factorial DoE builder. Users can easily define experimental factors and responses. The software automatically fills DoE data tables and positions runs on a random basis to eliminate human errors.

Third-party software integration

Alternatively to using the embedded DoE builder, a wide variety of designs for screening, process development, and optimization can be automatically imported from the most powerful third-party tools including JMP®, Modde®, and Design-Expert®.

Recipe generator and automated workflows

Parallel recipes incorporating factor variation e.g. for pH, dissolved oxygen, temperature set-points or feed rates are automatically populated. Following our easy Point-Click-Grow concept they can be carried out on a set of parallel operated bioreactors with a single mouse click.



DASware design DoE builder

> Get further information on DASware design including technical papers and applications on www.eppendorf.com/DASware-design or contact your local Eppendorf sales representative.

Ordering information

Description	Order no.
DASware® design, license for 1 vessel (DoE and local information management)	76DWDOE

Description	Order no. (system with glass vessels)	Order no. (system for single-use vessels)
DASbox® Mini Bioreactor System for Cell Culture Applications , max. 5 sL/h gassing		
4-fold system	76DX04CC	76DX04CCSU
8 fold system	76DX08CC	76DX08CCSU
16-fold system	76DX16CC	76DX16CCSU
24-fold system	76DX24CC	76DX24CCSU
DASbox® Mini Bioreactor System for Microbial Applications , max. 25 sL/h gassing		
4-fold system	76DX04MB	76DX04MBSU
8-fold system	76DX08MB	76DX08MBSU
16-fold system	76DX16MB	76DX16MBSU
DASGIP® Parallel Bioreactor System for Cell Culture* , max. 50 sL/h gassing		
4-fold system with Bioblock	76DG04CCBB	76DG04CCSU
8-fold system with Bioblock	76DG08CCBB	76DG08CCSU
16-fold system with Bioblock	76DG16CCBB	76DG16CCSU
DASGIP® Parallel Bioreactor System for Microbial Applications* , max. 250 sL/h gassing		
4-fold system with Bioblock	76DG04MBBB	76DG04MBSU
8-fold system with Bioblock	76DG08MBBB	76DG08MBSU
16-fold system with Bioblock	76DG16MBBB	76DG16MBSU

* DASGIP® Parallel Bioreactor Systems are configured to meet individual customer requirements. The systems shown are example configurations. Please contact us for more information.

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