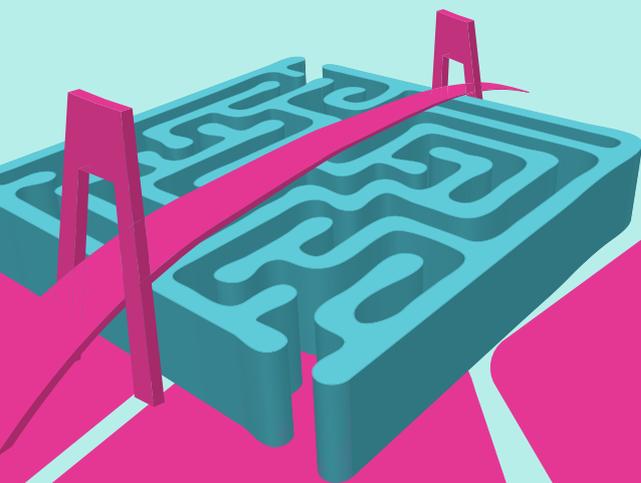
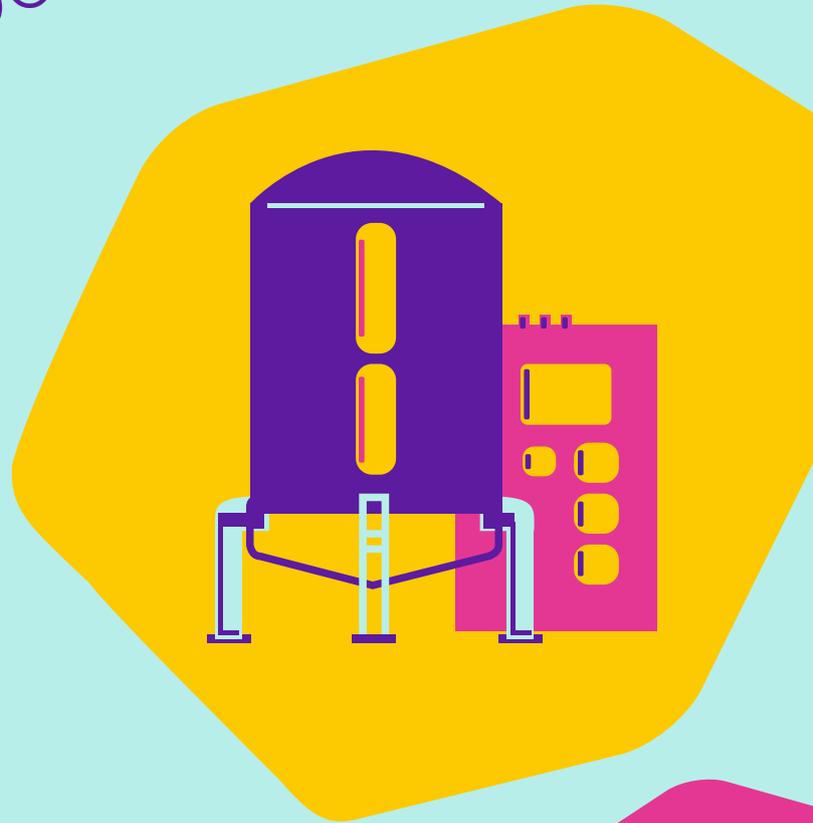
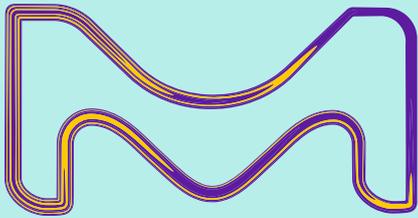


Emprove® Cell Culture Media

Ease your regulatory efforts with Cellvento® CHO media

Transparency and
comprehensive
documentation with
the Emprove® Program



The life science business of
Merck KGaA, Darmstadt,
Germany operates as
MilliporeSigma in the U.S.
and Canada.

SAFC®

Pharma & Biopharma Raw
Material Solutions

The Emprove® Program

**Confidently speed your way
through the regulatory maze
and fast track your new drug
to market**

The Emprove® Program – more documentation, less struggle

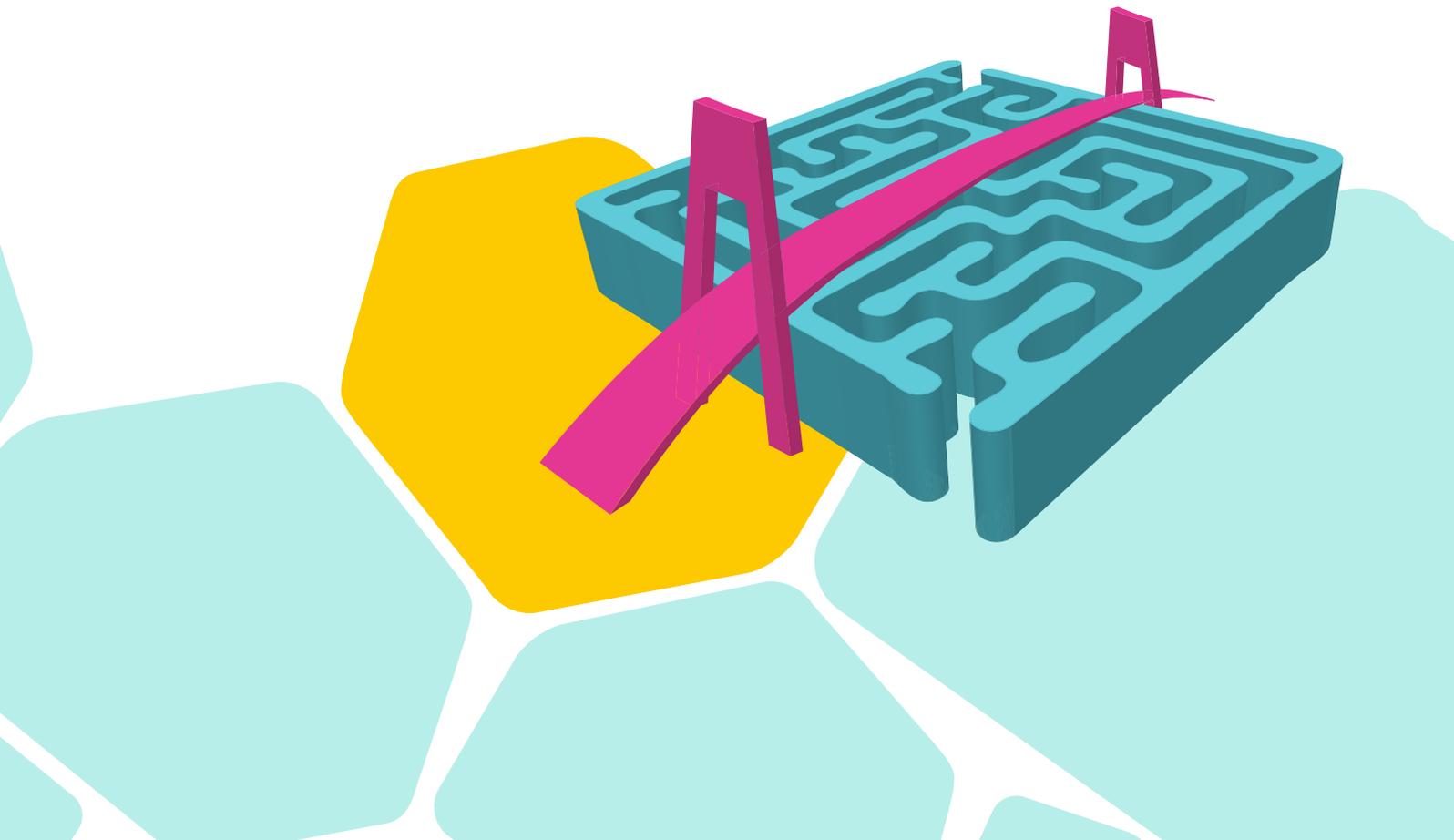
The Emprove® Program supports your risk assessment and management efforts with online access to regulatory information and comprehensive documentation.

With the Emprove® Program, full supply chain transparency is available at your fingertips.

Our Emprove® Dossiers help you to simplify your qualification, risk assessment and process optimization.

Our Emprove® Program enables you to reduce time, effort and utilize your resources optimally by providing:

- Full supply chain transparency
- Support of risk assessment and management
- Online access to regulatory information
- Comprehensive up-to-date documentation



How does it work?

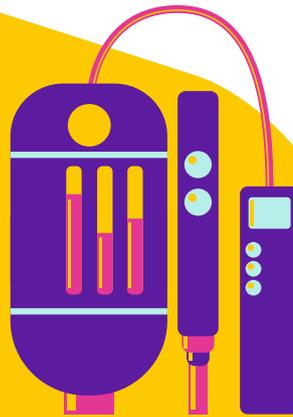
Qualification, risk assessment and process optimization

The Emprove® Program contains over 400 raw and starting materials, 30 filter and single-use product families, as well as selected chromatography resins and cell culture media. Each product portfolio is supported with Emprove® Dossiers which provide comprehensive, up-to-date documentation to help you navigate regulatory challenges, manage risks, and improve your manufacturing processes.

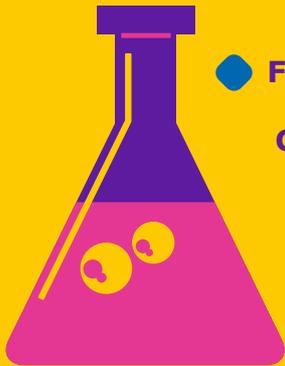
Emprove® Portfolio



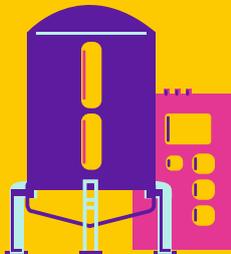
● **Filtration and Single-Use Components**



● **Chromatography Resins in Biomanufacturing Processes**



● **Pharma Raw and Starting Materials**



● **Cell Culture Media in Upstream Processes**

Emprove® Dossiers



Material Qualification



Quality Management



Operational Excellence

- Millipore® products
- SAFEC® products/services

Emprove[®] CCM: transparency and comprehensive documentation

Emprove[®] Dossiers for cell culture media products in biomanufacturing

Cell culture media (CCM) are of utmost importance to biopharmaceutical processes as they support cellular productivity and critical quality attributes of the final drug products.

Because of this critical role in manufacturing, along with increased regulatory focus on raw materials, a high level of information for the media is needed to support the entire process risk evaluation.

With Emprove[®] CCM we address the specific needs when selecting and qualifying products of our Cellvento[®] CHO cell culture media platform.

The platform consists of specially designed catalog media supporting the needs of process intensification in fed-batch and perfusion applications. The product formulations are chemically defined and of non-animal origin.

Three Emprove[®] Dossiers form material qualification, risk assessment and process optimization

Material Qualification Dossier

- General information
- Manufacture:
 - Manufacturing flowchart, ISO Cert, GMP statement
 - Homogeneity statement
- Characterization statements:
 - TSE/BSE, virus safety, GMO, components of interest
- Control of CCM:
 - CoAs, label, batch numbering
 - Packaging material
 - Stability



Information to start a material qualification

Quality Management Dossier

- Supply chain information
- Product quality self assessment
- Site quality self assessment
- Supplier management
- Stability data



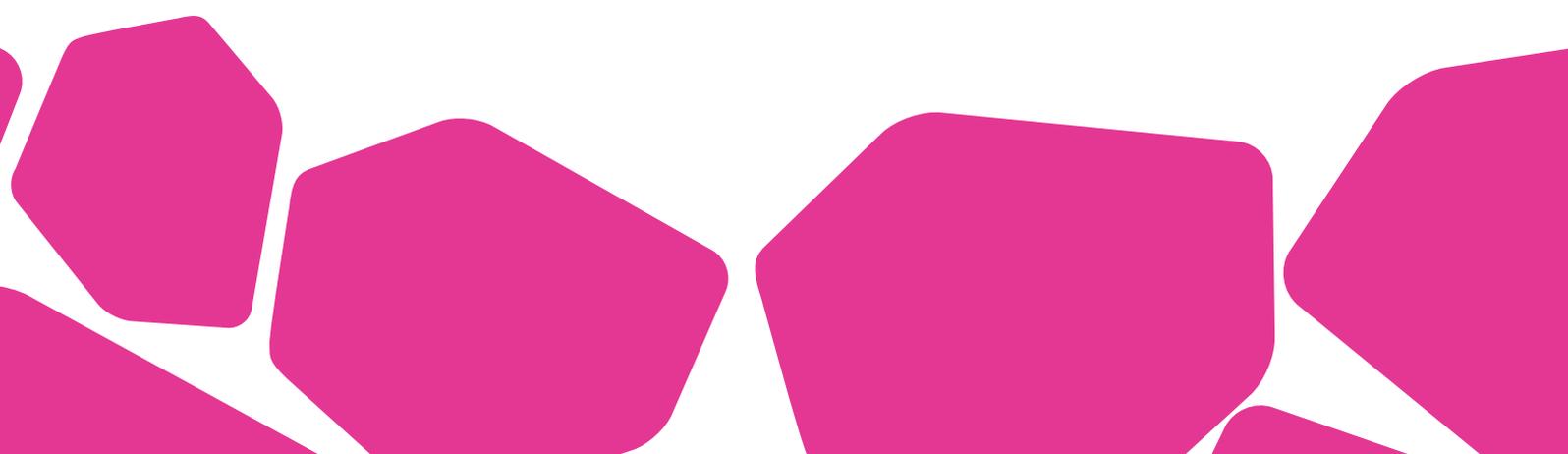
Answers questions during risk assessment

Operational Excellence Dossier

- Trace element information
- Origin of raw materials
- Analytical procedures



Supports process optimization



Emprove® Dossiers

The documentation you need to speed your way through the regulatory maze

In line with the existing Emprove® product categories, detailed information is available in three different types of dossiers, supporting you throughout the different stages of your operations: material qualification, risk assessment, and process optimization.

**More information on the website:
EMDMillipore.com/emprove**



Emprove® Suite

Unlock 24/7 online access to all Emprove® Dossiers

Getting the relevant information is now more convenient than ever with the Emprove® Suite.

The Emprove® Suite offers:

- 24/7 online access to all dossiers of the entire Emprove® portfolio
- Subscriptions available for 1, 2 or 5 years
- Current and up-to-date information optimized for easy and targeted search
- Dossier updates notifications

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To place an order or receive technical assistance, please visit **EMDMillipore.com/contactPS**

