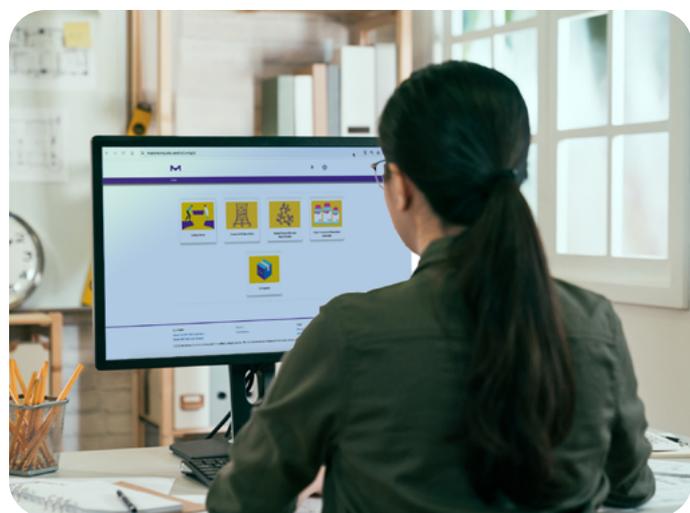


## mConfig™ Cell Culture Media and Chemicals Configurator

Custom cell culture media and process chemicals are essential for successful pharma and biopharma manufacturing, yet obtaining these products can be challenging due to manual and iterative request systems with long cycle times.

The complexity of raw and starting materials can make it difficult to select the right component for each stage of manufacturing. In addition, a lack of awareness of alternative components that could improve certain properties of a custom cell culture media may hinder progress. Moreover, sharing proprietary cell culture media formulations or process chemical compositions may raise confidentiality concerns.

**A convenient solution that provides easy, online access and technical guidance for custom cell culture media and process chemicals while ensuring data is protected offers many benefits.**



### Efficient Formulations Management and Consultative Recommendations

The mConfig™ Cell Culture Media and Chemicals Configurator simplifies requesting custom cell culture media and process chemicals through a secure web browser connection for direct review by our manufacturing team. The software enables you to easily manage your custom product setup requests, whether placing a request that is an adaptation of an earlier request or creating a completely new custom product definition. The mConfig™ tool supports requests for new pre-GMP [imMEDIAtе Advantage®](#) small-scale samples, new manufacturing-scale GMP custom media products, as well as the setup of custom process chemical products.

Leveraging MilliporeSigma's raw material R&D expertise, the mConfig™ Configurator delivers tailored recommendations to optimize your formulation. With consultative insights, the tool supports informed decision-making to improve formulation quality and performance.

For single chemical requests, mConfig™ Configurator also conducts feasibility checks on packaging (e.g., chemical compatibility), presenting users with options.

**The compositions requested via mConfig™ Configurator rely on high-quality SAFC® materials and are backed by our global quality systems, services, and support you count on.**

## Key Benefits

- **Real-Time Recommendations:** Receive immediate feasibility checks and feedback on manufacturability, including suggestions for alternative components to improve consistency, performance, and process control.
- **Self-Service Request Intake:** Available from a browser 24/7, the tool simplifies new product setup requests and allows you to submit online, enhancing productivity. You can also check the status of your requests any time.
- **Improve Accuracy:** Reduce errors associated with manual handling of long lists of complex chemicals.
- **Enhanced Confidentiality:** Formulations are sent directly to the technical and manufacturing teams, strengthening confidentiality of your proprietary data.
- **Accelerated Delivery:** Readily available and qualified materials minimize sourcing delays, improve consistency, speed up request workflows, and ensure faster shipment turnaround times.

## Navigating the mConfig™ Configurator

After logging into mConfig™ Configurator, from the **Home** page you can initiate the request process by selecting your product type – custom cell culture media, process chemical blend, or single process or formulation chemicals. By clicking on **My Requests** you can also view all your previously submitted requests and easily track their status.

Once you've selected your product type, the application opens, and the **left navigation bar** (Table 1) allows you to move easily between menu choices. The mConfig™ Configurator guides users to provide all information necessary to successfully submit a request. The software is responsive – changing menu options and fields based upon the product type.

**Table 1: Menu options displayed change based on product type**

ICON	SCREEN
	<b>Request Initiation</b> – users further specify the request type by choosing between an imMEDIATE ADVANTAGE® service request for pre-GMP, small-scale custom media, feeds, supplements, and buffers, or a GMP product
	<b>Product Information</b> – this screen captures contact information, product forecast, and the product application data
	<b>General Information</b> – users enter additional information and requirements, such as product application and change notification preferences
	<b>Product Details</b> – the information provided here regarding the manufacturing process helps with feasibility assessments and product setup
	<b>Storage &amp; Shipping</b> – allows users to customize conditions in which their product is to be stored and shipped
	<b>Labeling</b> – all labels contain product number, lot number, pack size, product name, storage temperature, country of origin, and intended usage statement information; users may customize their product labels with additional information such as expiration date.
	<b>Samples</b> – users may request samples for such things as batch-to-batch consistency verification or stability testing
	<b>Specification Testing</b> – standard tests are set based on product type; users may customize by adding additional tests
	<b>Packaging</b> – this screen allows users to choose between standard or customized packaging
	<b>Define Formulation</b> – in this screen users can provide their formulation. The tool will offer recommendations to optimize a formulation e.g., when solubility limits are exceeded.
	<b>Summary Page</b> – displays all choices made in successive menus; users may save as a draft or submit a request



Throughout the application, question mark icons near text fields, radio buttons, or multiple-choice check boxes can be clicked to provide guidance and examples on how best to complete the form. In some cases, these help prompts also link to additional resources outside the application.

The screenshot shows the 'mConfig' application interface. On the left is a vertical navigation menu with icons and labels: 'Request Initiation' (selected), 'Summary Page', 'Product Information', 'General Information', 'Product Details', 'Storage & Shipping', 'Labeling', 'Samples', 'Specification Testing', 'Packaging', 'Define Formulation', and 'Summary Page'. The main content area is titled 'Request Initiation' and contains the heading 'Choose Record Type to Create'. There are two radio button options: 'New imMEDIATE ADVANTAGE®' (with a question mark icon) and 'New GMP Product' (with a question mark icon). A help dialog box is open over the first option, titled 'New imMEDIATE ADVANTAGE®'. The dialog contains the text 'Use this option for:' followed by a bulleted list: 'All first-time requests for powder formulations', 'Any prototype material for evaluation prior to large scale production.', 'Production scale 0.5kg to 20 kg', and 'For more information about our imMEDIATE ADVANTAGE® program click "Learn More"'. A 'Learn More' link is at the bottom right of the dialog.

Example of a help dialog providing instructions

## General Information

In the **General Information** screen, the user enters additional information and requirements, such as product application, whether it must be animal component free, and change notification preferences.

The screenshot shows the 'mConfig' application interface on the 'General Information' screen. The left navigation menu is the same as in the previous screenshot, with 'General Information' selected. The main content area is titled 'General Information' and has a sub-heading 'General Information'. It contains two columns of radio button options. The first column is 'Product Category' with options: 'Please Select', 'Liquid Media' (selected), 'Buffer', 'Concentrated Buffer', and 'Other Liquid'. The second column is 'Product should be made animal component free?' with options: 'Please Select', 'Animal Component Free' (selected), and 'Animal Component Containing'. Below these is a text field for 'Preferred manufacturing sites for setup' containing 'Irvine, Scotland' with a dropdown arrow and a question mark icon. A note states: 'Please note that final site selection is subject to feasibility checks.' Underneath is a 'Change Notification Opt-In' section with radio button options: 'Please Select', 'Change notice requested per standard Change Notice Commitment (CNC)', 'Change notice requested per existing Quality Agreement with new product to be added to the Agreement after setup' (with a question mark icon), 'Change notice requested per new Quality Agreement to be initiated after new product setup' (selected), and 'Not required'. At the bottom are text fields for 'Contact Person' (Doreen Gifford) and 'Contact Street Address' (81 Ashby Road).

General Information gathers application information and change notification preferences

## Define Formulation

In the **Define Formulation** screen, the mConfig™ Configurator provides feasibility checks and real-time feedback on the manufacturability of custom cell culture media and process chemicals. It leverages the digitalized expertise of our technical teams to offer immediate optimization choices, such as higher purity alternatives better suited for a specific application, components with improved solubility, or chemicals designed to minimize clumping. The configurator also checks whether materials meet quality requirements.

Changes are never made without your acceptance of the suggested alternatives, ensuring you maintain control over the formulation process.

The screenshot shows the 'Define Formulation' interface in mConfig. On the left is a navigation sidebar with icons for Request Initiation, Product Information, General Information, Product Details, Storage & Shipping, Labeling, Samples, Specification Testing, Packaging, Define Formulation (highlighted), and Summary Page. The main content area has a title 'Define Formulation' and a subtitle 'Add/Delete/Sort/Reorder formula ingredients.' Below this is a note: 'You can add multiple items at a time by clicking on the "Add Using..." button or you can add items individually using "Add Ingredient" button.' A red note states: 'Note: The Precision entered into the Quantities field can be up to 10 decimal places. However, due to measurement limitations this accuracy is not guaranteed and will vary depending on type of item selected.' There are four buttons: 'Add Using...' (dropdown), 'Sort By' (dropdown), 'Toggle View' (refresh icon), and 'Delete All' (trash icon). Below is a 'Formulation List' table with columns: Common Description, CAS #, Quantity, UoM, and Line #. The table lists six ingredients, with the third one (Pyridoxal, HCl) having a warning icon and a red text suggestion: 'Please consider using Pyridoxine Hydrochloride (CAS# 58-56-0) for improved stability.' with a 'Fix This' button.

	Common Description	CAS #	Quantity	UoM	Line #
<input checked="" type="checkbox"/> Edit	L-Proline	147-85-3	0.12741	Gram/Liter (g/L)	1
<input checked="" type="checkbox"/> Edit	Putrescine, 2HCl	333-93-7	0.0000405	Gram/Liter (g/L)	2
<input checked="" type="checkbox"/> Edit	Pyridoxal, HCl <span style="color: red;">⚠</span>	65-22-5	0.001	Gram/Liter (g/L)	3
	Please consider using Pyridoxine Hydrochloride (CAS# 58-56-0) for improved stability. <span style="background-color: #e67e22; color: white; padding: 2px 5px; border-radius: 3px;">Fix This</span>				
<input checked="" type="checkbox"/> Edit	Pyridoxine, HCl	58-56-0	0.0005155	Gram/Liter (g/L)	4
<input checked="" type="checkbox"/> Edit	Riboflavin	83-88-5	0.0002095	Gram/Liter (g/L)	5
<input checked="" type="checkbox"/> Edit	L-Serine	56-45-1	0.1	Gram/Liter (g/L)	6

The Define Formulation screen showing suggested alternatives to optimize a formulation

## Summary Page

The **Summary Page** displays all the choices made in each successive menu in the left navigation bar. You can save your work as a draft, or you can review and submit your request.

The screenshot shows the mConfig interface. On the left is a vertical navigation sidebar with icons and labels for: Request Initiation, Product Information, General Information, Product Details, Storage & Shipping, Labeling, Samples, Specification Testing, Packaging, Define Formulation, and Summary Page. The main content area has a purple header with 'mConfig' and two buttons: 'Save Draft' and 'Submit Request'. Below the header, the 'Summary Page' title is followed by a paragraph: 'On Submit you will receive a PDF with a summary of your customization request via email. Our sales team will get in contact with you within the next days to further clarify the request with you.' The content is organized into sections separated by horizontal lines: 'Request Initiation' (Choose Record Type to Create: New GMP Product), 'Product Information' (How should documents related to your requests be sent to you?: Customer portal; Name for Document Approvals: Doreen Roche; e-Mail Address for Document Approval: doreen.roche@milliporesigma.com; Requested Delivery Date (First Order): Monday, April 28, 2025; First Order Pack Sizes and Quantities: 5; Will this product be used for direct human and/or animal injection?: No), 'General Information' (Product Category: LM; Product should be made animal component free?: Yes; Preferred manufacturing sites for setup: Irvine, Scotland; Change Notification Opt-In: Change notice requested per new Quality Agreement to be initiated after new product setup; Contact Person: Doreen Roche; Contact Street Address: 81 Ashby Road; Contact Email Address: doreen.roche@milliporesigma.com; What is the source of the formulation?: New custom formulation), and 'Product Details' (Are you currently purchasing this material from another supplier or manufacturing it in house?: Yes).

A Summary Page displaying all selections

## Technical Specifications

Logging in over a secure HTTPS connection ensures that your data and interactions within our web-based application are fully encrypted and secure. For best performance, a Google Chrome or Microsoft Edge browser on a personal computer is recommended.

A Microsoft Azure cloud-based environment assures data is securely stored and transmitted, providing far greater data protection than the practice of emailing files.

For additional information, please visit [SigmaAldrich.com/mConfig](https://SigmaAldrich.com/mConfig)

To place an order or receive technical assistance, please visit [SigmaAldrich.com/support/customer-support](https://SigmaAldrich.com/support/customer-support)

or email [mConfig\\_techsupport@sigmaaldrich.com](mailto:mConfig_techsupport@sigmaaldrich.com)

## Services and Support

We offer comprehensive services, support, and documentation to get you up and running fast using mConfig™ Configurator.

New versions of mConfig™ software including updates and added features for improved functionality will be regularly released.

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