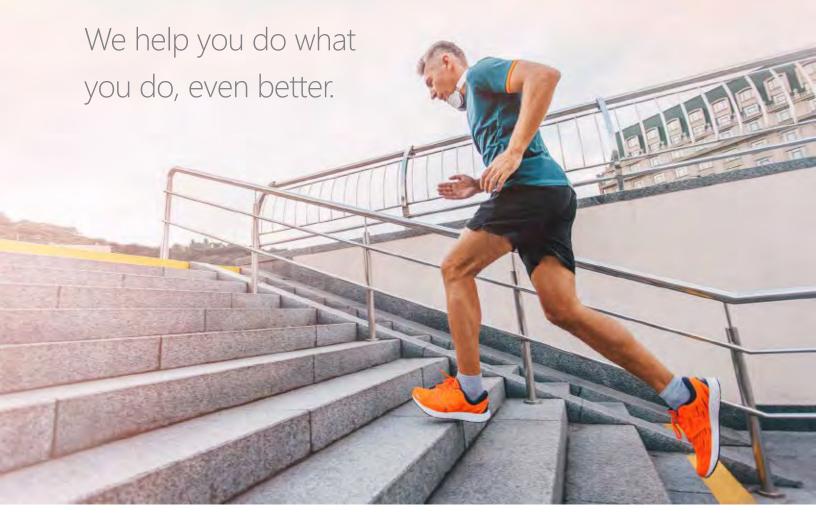


Merit for Life Science

You make people's lives better.



More than any other industry, pharma, biotech and medical device organizations need an ERP system that is specifically built for the needs of life science manufacturers. The good news is, there's no need to compromise. As you navigate an ever-growing maze of stringent regulations, you can be confident that your ERP system has you covered – from demand forecasting and capacity planning to incidents, NCRs and CAPAs, from track and trace and electronic batch reporting to integrated labeling, shipping and tracking, and more.

Merit for Life Science advances the finance and operations (ERP) capabilities of Microsoft Dynamics 365 to deliver an industry-tailored solution that meets the rigorous requirements of pharma, biotech and medical device organizations, including planning, quality, procurement, materials management, production, and compliance.

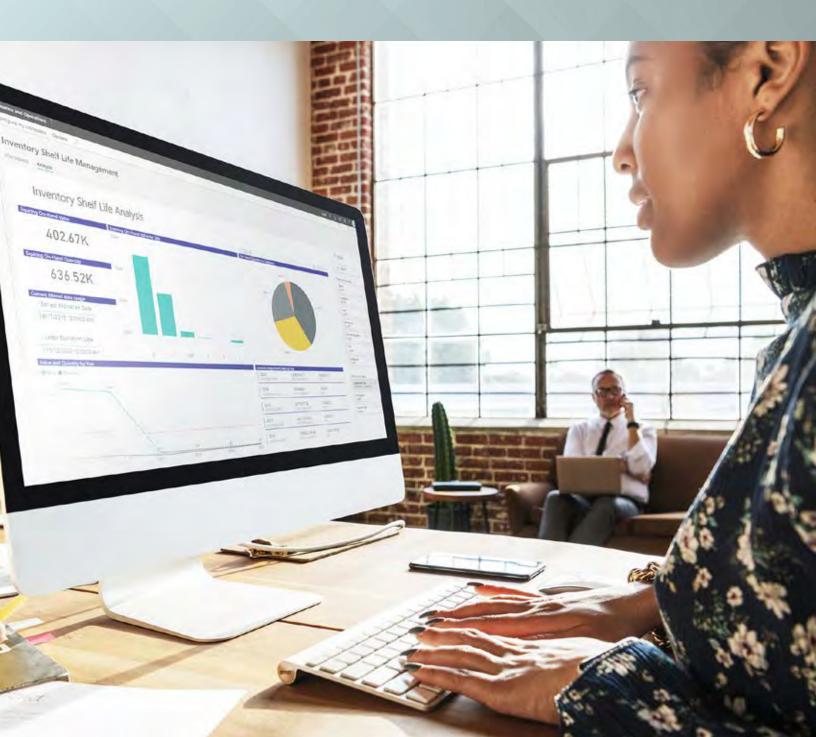
With Merit for Life Science, regulated manufacturers can drive increased process efficiencies, ready for and support rapid growth, and drive valuation while maintaining FDA CFR 21 part 11 and part 211, EMA Annex 11, and other country-specific regulatory compliance.

With our experienced implementation and consulting team, you gain an ERP partner who understands the complex operational, manufacturing, and compliance challenges life science and medical device organizations face.

Streamline operations to ramp growth and sustain profitability

Competing in the biotech, pharma, and medical device world means you have to be ready to handle volume before it hits. There is no time to be held back by spreadsheets and manual processes.

With Merit for Life Science, you've got the tools you need to increase manufacturing productivity, reduce time-to-market, and plan for and manage growth. You'll be on pace to ride the momentum from start-up to commercial success – and do so in a way that makes good fiscal sense.



FINANCE

- Evaluate and implement appropriate funding models to reduce R&D expense burden via licensing arrangements or other partnerships to ensure tax efficiencies.
- Make informed decisions about business development transactions.
- Establish financial reporting standards for acquired entities or to prepare for acquisition
- Transform your operations from disconnected silos to collaborative departments.
- Improve your decision-making process with reliable, auditable accounting practices.

PRODUCTION

- Electronically manage everything from materials evaluation and potency to equipment calibration and device/batch history records, across multiple modes of manufacturing.
- Track the handling of raw materials throughout their preparation stage, capturing information about the process digitally and ensuring everything is auditable and done according to SOPs and specific batch requirements.
- Implement a model-driven planning engine for real-time insights about when to order or produce certain materials and shorten order cycle time.
- Digitally support tracking of material lot status to reduce human error and enforce softwaredriven controls for material lot status changes and material movements.
- Split batches into multiple lots or sub lots to improve and manage downstream processing.
- Use real-time data to maximize resources for the best production schedule outcome.

- Reduce the complexity of tracking various parameters related to specific business processes, as well as employees' training and certifications.
- Deliver products on time with unprecedented accuracy.

DIGITAL EXPERIENCE

- Digitalize your customers' interactions with your organization, ensuring everything is done in a secure and FDA-compliant manner.
- Automate processes such as managing technical materials, specifications, sign offs and various other steps during the 'customer readiness' or 'batch readiness' phase. Reduce cycle times and work processes between the time an order is placed and the time the production batch for that order can be processed.
- Enable your team to work with the best and latest digitally enabled apps optimizing the management of processes across your organization. Do away with time consuming manual tasks and enable your employees to become more productive and joyful.
- Transform some of your critical business process information into data which the system can use to recognize patterns, make better decisions and become even more efficient.



Gain End-to-End Supply Chain Excellence

Nothing magnifies internal and external issues like an unexpected disruption in the supply chain. For regulated manufacturers, the speed with which you can remedy those interruptions can be life-changing.

With Merit for Life Science, you can pinpoint the trouble spots and put the right checks and balances in place to prevent them. By monitoring the rules that matter, you'll have confidence that you're working with qualified suppliers, managing resources with precision, and accurately and consistently producing product.

PROCUREMENT

- Qualify vendors for items before ordering raw materials from them. Track all interactions with vendors including vendor nonconformances that could put them out of vendor qualification. Digitally enforce ordering from qualified vendors only.
- Proactively manage what qualified suppliers are coming up for recertification.
- Test incoming vendor raw materials according to various test protocols related to risk and industry accepted sampling protocols.

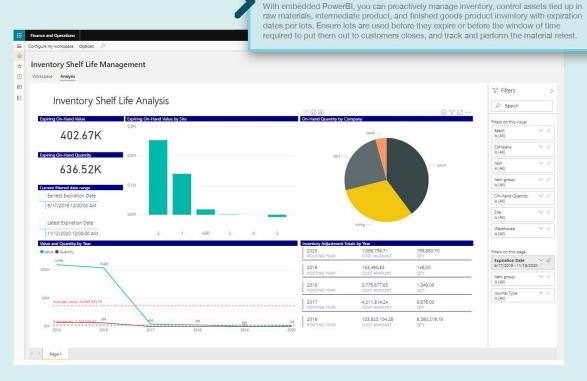
	= 000386 : +SODIUMHYDROXID	E(NAO							
My view∨									
PRODUCTS									
Item number 000386	Product name Sodium Hydroxide (NaOH)	Item classification 10 R&D							
Vendor 1	Vendor name	Effective	Expiration	Workflow status	Vend classification				
1001	BioTechX	9/15/2020	Expiration	Pending approval	10 R&D				
1003	Ade Supply Company	4/20/2020	1/1/2021	Not submitted	10 R&D				
10279	RM Vendor	4/20/2020	4/19/2021	Approved	10 R&D	-			
	ſ	provisio	on of mate	ech manufact	vices. With N	lerit for Life	Science, yo	u can	
		provisio	on of mate ire and ma		vices. With N	lerit for Life	Science, yo	u can	

MATERIAL MANAGEMENT AND CONTROL

for pharmaceutical manufacturers.

- Control assets tied up in raw materials, intermediate product, and finished goods product inventory with expiration dates per lots. Ensure lots are used before they expire or before the window of time required to put them out to customers closes.
- Reset material lots expiration dates after retesting for stability and other attributes.
 Use a digital platform to identify those material lots and retest within the available times.

Merit for Life Science helps you better manage inventory shelf life, an ongoing challenge





Recall trace any product at any time, quickly and completely, from the customer finished good all the way back to all raw materials used and every step in between.

- Control material labels with the ability to audit printed labels. Automate label printing and have the system pull relevant information onto labels in a controlled manner.
- Prevent cross-contamination of materials while enabling accurate costing of materials based on actual dispensing units. Ensure accurate and consistent weighing of all material types.

G ☆ ⊙	Save New trace Tracing Option Item Sales Customers Sales Batches Customers Shipped sales on Not shipped sales Not shipped sales	Purchase Prod Vendors Prod rders Purchase order lines Penc		xport Print Shipped to customers	Merit for Lif enables you (both forwa any product	to recall rd and ba			
	✓ My view ✓ Item tracing LYS, Backward, Batch number=2	2019-008			quickly and from the fin each raw m	complete ished goc aterial use			
	Trace View details On-hand inver		ice from node ∽ Production picking li	it	and every s	tep in bet			
	 LYS • Work USMF-00 LYS • Work USMF-1 LYS • Work USMF 	00168 • 3/25/2019 • -900.00 • Site=5, 000168 • 3/25/2019 • 900.00 • Site=5, -000168 • 3/25/2019 • -900.00 • Site=	rehouse = 51,Location = UP-001,Inventory Varehouse = 51,Location = 51,Inventory sti Marehouse = 51,Location = 51,Inventory st 5,Warehouse = 51,Location = PRODRECV,I 5 Warehouse = 51 Location = PRODRECV I	itus=Available,License plate=LYS-20190 atus=Available,License plate=LYS-2019 iventory status=Available,License plate	001,Batch number=2019-008 001,Batch number=2019-008 =LYS-2019001,Batch number=2019-008				
	On-hand inventory								
	Batch								
	On-hand list Transactions BATCH DISPOSITION Batch number 2019-008	Inquiries V Reset batch disposition of Batch disposition code RELEASED	ode Batches SHELF LIFE AS OF DATE Manufacturing date 3/25/2019	VENDOR BATCH Vendor batch number	Vendor expiry date	Country,			
		Description Released	Shelf advice date 8/14/2019	Vendor batch date		Country,			
			Retest date 1/19/2020 Expiration date 1/19/2020						

Deliver innovative, effective, and safe products

Measuring compliance is critical, but in manufacturing, compliance alone is not enough. You must also continuously improve the quality of your operations and your products. With Merit for Life Science, you gain a comprehensive platform to establish and maintain a culture of quality while also supporting regulatory compliance.

You'll manage end-to-end quality test points with granularity and meet the rigorous requirements of your industry with digital traceability. And, if you're preparing for M&A activity, having both critical practices built into your operational system will make your company an attractive target.

REGULATORY COMPLIANCE

- Leverage an extensible digital framework that simplifies your process of meeting FHIR, HIPAA, and GxP requirements, as well as ensures 21 CFR Parts 11, 210, 211 and 820 compliance.
- Provide functionality to address: planning, compliance, quality, shelf life and retest, CAPA, controlled labels, electronic batch record / electronic device history record, audit management, weighing and dispensing, and instrument calibration.
- Guided compliance-related tasks such as procurement, dispensing, retesting, materials management, and others saves resources.

The Electronic Batch Report process simplifies and automates the creation of a document that includes all details in a single report. This eliminates the need for users to run multiple reports and manually assemble the summary.

		Batch Record		
Product:	900L Lysis Buffer	Item No.:	LYS	
Batch No 1		Production No -	B000477	

Preparation of 900L Lysis Buffer

1.0 Preparation							
Material Number	r (MN)		Preparation Lot Number				
LYS							
2.0 Materials							
Material Name	M	MN		LN	Signed By	Sig. Date	
Mixing Bag, 1000L, Cubical, Ste	rile 001	595	2	019-005	Dejan Kosanovic	9/1/2020 9:35 AM	
Purifier Water	P	N	2019-007		Dejan Kosanovic	9/1/2020 9:45 AM	
20% SDS	000	283			Dejan Kosanovic	9/1/202 9:50 AM	
Final Vessels	F	FV		019-006	Dejan Kosanovic	9/1/2020 9:56 AM	
3.0 Equipment			<u>.</u>		L	<i>.</i>	
Equipment Name	EQ Number	EQ Number		Date Due	Signed By	Sig. Date	
Mixing Tank with Load Cells	Mix Tank	1	Active	3/4/2019	Dejan Kosanovic	9/1/2020 9:42 AM	
Magnetic Mixer	Magnetic M		Active	3/4/2019			
Scale	Scale		Active 3/4/2019		Dejan Kosanovic	9/1/2020 10:01 AM	
Scale	Scale		Active	3/4/2019	Dejan Kosanovic	9/1/2020 10:08 AM	
Magnetic Mixer Magnetic M		6	Active	3/4/2019	Dejan Kosanovic	9/1/2020 12:08 PM	
Magnetic Mixer	Magnetic M	-	Active	3/4/2019	Dejan Kosanovic	9/1/2020 12:14 PM	

QUALITY MANAGEMENT

- Have our solution prompt for QC tests where needed, track the status sent out to QC, and manage against the expected timelines while waiting.
- Manage various quality test points throughout the materials and production process. Manage those quality test points, either by having the system perform that task, or by managing the queue of tests that have to go to QC and back while production is held up.
- Ensure sampling rules associated with specific items are followed automatically. Use industry standards such as ANSI to drive sampling plans and different test plans for skip lot, qualification, re-qualification, retest and stability testing protocols.
- Oversee the status of reported incidents from a centralized workspace and manage them to completion effortlessly.

Quality pla

onalize this page

- Keep comprehensive and auditable records of every reported incident. Ensure investigations can be performed across multiple people, facilities and geographies, knowing everything can be tracked and audited.
- Operationalize your standard operating procedures detailing what's required when dealing with a non-conformance (NCR) and corrective action preventive action (CAPA.)
- Leverage automation to assign expiration dates to material batches and drive a proactive retest process (for inventory approaching expiration) to support a compliant process of re-certifying and extending expiration dates to avoid costly material loss.
- Perform quality tests in the system, setting up tolerances for acceptance for specific items.
 Use the ability to retest if you get a marginal failure result the first time.

Merit for Life Science extends standard master planning functions to create a full projection of future-dated anticipated Quality Orders. This provides key information for users responsible for planning or scheduling quality testing resources and for anticipating potential supply-chain bottlenecks caused by backlogs.

My view∽										
P Filter	Plan	Show skipped 📃 Sh	ow closed							
Reference type	Reference number	Test group	Item number	Batch disposi	Quantity	Description	Delivery date 1	Start by date	Finish by date	Quality orde
Stability tests	00251	Potency	DUS-0003		10.00	Initial stability test		5/19/2020	5/21/2020	000406
Stability tests	00251	Potency	DUS-0003	Avail	10.00	Second stability test		8/18/2020	8/20/2020	000407
Stability tests	00251	Potency	DUS-0003	Avail	10.00	Third stability test		11/18/2020	11/20/2020	000408
Stability tests	00251	Potency	DUS-0003	Avail	10.00	Forth stability test		5/18/2021	5/20/2021	000409
Stability tests	00251	Potency	DUS-0003	Avail	10.00	Fifth stability test		5/18/2022	5/20/2022	000410
Purchase	000016	Enclosure	M0008		20.00	Enclosure dimensions	12/25/2016	12/25/2016	12/25/2016	
Purchase	00000525	Purch_Test	000386		10,000.00	Purchase Receipt Tests	10/7/2019	10/7/2019	10/7/2019	
Purchase	00000527	Purch_Test	000386	Q-Inspect	20,000.00	Purchase Receipt Tests	10/7/2019	10/7/2019	10/7/2019	
Purchase	00000601	Purch_Test	000386	RELEASED	50.00	Purchase Receipt Tests	10/9/2019	10/9/2019	10/9/2019	
Purchase	00000876	Purch_Test	000386		1.00	Purchase Receipt Tests	2/5/2020	2/5/2020	2/5/2020	
Purchase	00000000	Purch_Test	000386		100.00	Purchase Receipt Tests	2/11/2020	2/11/2020	2/11/2020	
Purchase	00000950	Purch_Test	000386		10.00	Purchase Receipt Tests	3/5/2020	3/5/2020	3/5/2020	
Purchase	00000976	Purch_Test	000386		100.00	Purchase Receipt Tests	4/30/2020	4/30/2020	4/30/2020	
Purchase	00000978	Purch_Test	000386	Q-Inspect	1,000.00	Purchase Receipt Tests	4/30/2020	4/30/2020	4/30/2020	
Purchase	00000979	Purch_Test	000386	Q-Inspect	2,000.00	Purchase Receipt Tests	4/30/2020	4/30/2020	4/30/2020	
Purchase	00001025	Purch_Test	000386		1.00	Purchase Receipt Tests	5/12/2020			000436
Purchase	00001028	Purch_Test	000386			Purchase Receipt Tests	5/13/2020			000432
Purchase	00001027	Purch_Test	000386	Q-Inspect	100.00	Purchase Receipt Tests	5/13/2020			000443
Purchase	00001051	Impedance	D0001		25.00	Impedance	5/15/2020			000381
Purchase	00001100	Purch_Test	000386		10.00	Purchase Receipt Tests	5/25/2020			000433
Purchase	00001101	Purch_Test	000386	Q-Inspect	100.00	Purchase Receipt Tests	5/25/2020			000434
Purchase	00001102	Purch_Test	000386		1.00	Purchase Receipt Tests	5/25/2020			000437
Purchase		Purch_Test	000386			Purchase Receipt Tests	5/26/2020			000438
Purchase		Purch_Test				Purchase Receipt Tests				

A Solution for Today and Tomorrow

The tremendous potential of the life science industry requires organizations to be ready for major growth at a moment's notice.

Merit for Life Science supports the ambitions of those looking to improve the lives of others and prepare themselves for even greater future challenges.

Whether your focus is pharma, biotech, or medical devices, your business is continuously forwarding the frontiers of knowledge in the life sciences and it is our job to equip you with a future-proof tool capable of helping you achieve your goals more swiftly and methodically. This is a purpose-driven mission that we take very seriously.

To learn more about how Merit for Life Science can help drive efficiency in your organization, visit www.meritsolutions.com.

