

MANTECH SOLUTIONS FOR FOOD & BEVERAGE

GET THE RESULTS YOU NEED WITHOUT PERFORMING THE TEST



Say goodbye to multiple scattered analysis stations and handwritten bench sheets...

MANTECH all-in-one systems measures multiple critical parameters for processing plant operators from one centralized, simple-to-use and SMART [software](#)-controlled [MT3 and MT5 systems](#).



ONLY Five Simple Steps!

1. Approach analyzer
2. Click shortcut for required test
3. Follow quick & easy set-up instructions
4. Press start & perform other tasks
5. Email notification for test completion & saved results

TAKE YOUR PRODUCTION TO THE NEXT LEVEL & UPGRADE TO MANTECH TODAY!

MANTECH SYSTEMS

- ✓ Analyze multiple parameters from one system
- ✓ Desktop monitor displaying live analysis curves
- ✓ Easy database management with LIMS capability
- ✓ Customizable shortcuts
- ✓ Upgradable to automated or online systems

TRADITIONAL & OUTDATED SYSTEMS

- Analyze a single parameter per system
- LCD keypad displaying final results
- Minimal data storage & requires handwritten bench sheets

PARAMETER	METHODOLOGY	CONFORMS TO:	RANGE OF MEASUREMENT*	CALCULATED METHOD DETECTION LIMIT (MDL)**	RSD SPECIFICATIONS***
Free Sulfites	Potentiometric Titration	AOAC 892.02	0.8 - 800ppm	0.8ppm	1.10% @ 25ppm
Total Acidity (TA) in Wine	Potentiometric Titration	AOAC 962.12	1.0 - 15ppt	1.0ppt	1.54% @ 6.0ppt
Acidity in Foods	Potentiometric Titration	SM 2310B	1.0 - 10,000pm	1.0ppm	0.89% @ 10ppm
Reducing Sugars in Wine	Potentiometric Titration	Rebelein's (Gold Coast) Method	2.5 - 180ppm	2.5ppm	3.13% @ 25ppm
Vitamin C	Potentiometric Titration	AOAC 967.21	10 - 1000ppm	1.0ppm	0.99% @ 10ppm
Conductivity	Conductivity Cell	EPA 120.1; SM 2510 B; ASTM D1125; ISO 7888	<1 - 199,999uS	0.65	0.18% @ 1413uS
Chloride	Potentiometric Titration	SM 4500-Cl D	1 - 10,000ppm	1ppm	8.26% @ 1ppm
Turbidity in Beer & Cider	Turbidity Meter	SM 2130 B; ASTM D 1889; EPA 180.1; ISO 7027; EN 27027	0.5 - 1,000NTU	0.1NTU	0.29% @ 0.5NTU

[Additional parameters available.](#)

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WASTEWATER MANAGEMENT MADE MANAGEABLE



Water is a vital resource in the food and beverage production process. The wastewater generated during this process contains high levels of organic matter, known as biochemical oxygen demand (BOD). Failing to treat high strength wastewater is not only harmful to the environment but can lead to fines from local municipal authorities. Regulatory costs are not the only financial impact of overstrength wastewater. High strength wastewater is also an indication of inefficient ingredient use and lost product. To proactively manage wastewater in an economical and environmentally responsible manner, processing plants must develop and maintain an understanding of wastewater within their operations. Due to the complexity and minimum 5-day waiting period, traditional BOD analysis cannot provide operators with the results they need, when they need it, to optimize their plants.

INTRODUCING MANTECH'S RAPID BIOCHEMICAL OXYGEN DEMAND (BOD) ANALYZER



MANTECH's rapid 10-minute BOD estimator provides operators with results in near real-time to improve operational efficiencies by:

- ✓ Reducing wait times to **10 minutes** vs. several days
- ✓ Ensuring compliant effluent discharge (avoid surcharges/fines)
- ✓ Providing key insights to optimize processes, manage wastewater composition and identify ingredient loss

“ You have to measure it to manage it. This provides food processors with the accuracy of a laboratory test without the need for a lab facility or highly trained technician. ”

- Michael Fagan, Senior Vice President, BLOOM

GET BACK TO FOCUSING ON WHAT YOU DO BEST BY LETTING US HANDLE WHAT WE DO BEST

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OPTIMIZE YOUR RESULTS. PROTECT OUR ENVIRONMENT.

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