

BAX® System PCR vs. Other Methods

Trusted. Validated. Proven.

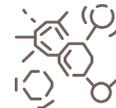
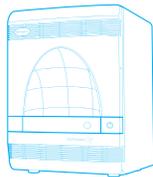
Trusted Worldwide for the Broadest PCR Detection Portfolio

For over two decades, the BAX® System has set the standard in real-time PCR food safety testing.

The BAX® System empowers food safety and quality teams, from the operations team on the line to microbiologists and corporate QA leaders, to detect pathogens and other organisms quickly and confidently across global operations. Built for high-throughput environments that demand accuracy, regulatory acceptance, and simplicity, BAX System combines precision science with practical workflows to enable faster release decisions, fewer reruns, and complete confidence in every result.



Comparison of Methods



	Hygiena® BAX® System PCR	Alternate Molecular Methods	Immunological Methods	Culture Methods
Technology	Real-Time PCR	LAMP, Isothermal, Real-Time PCR	ELISA or ELFA	Traditional microbiology
Target	DNA	DNA	Antigen-antibody	Viable, living organisms
Sensitivity	++++ Very High	++++ Very High	++ Moderate	++ Moderate
Specificity	++++ Very High	Varies by method	++ Moderate	++ Moderate
Internal Control	Included in every reaction	Varies by method	No	No
Ease of Use / Workflow Efficiency	++++ Very Easy	Varies by method	++++ Very Easy	+++ Easy
Time to Result	< 1 day	< 1 day	1 to 2 days	> 2 days

Comprehensive Global Validation



QUA 18/12 - 12/24
Alternative Analytical Methods for Agribusiness
<http://nf-validation.afnor.org/en>



Ministério da Agricultura, Pecuária e Abastecimento



Proven Performance Advantages



Speed & Efficiency: Results in 8–24 hours enable faster product release decisions.



Accuracy: Detects as low as 1 CFU per sample with built-in internal controls.



Reliability over time: Validated workflows and robust instruments deliver consistent performance, helping minimize re-tests and false results.



Ease of Use: Simple workflow requires few hands-on steps, and lyophilized chemistry reduces errors.



Breadth of Validation: > 1,000 matrix approvals across all major food segments (AOAC, NF VALIDATION by AFNOR Certification, Health Canada).



Global Support: 160+ trained specialists providing 365-day technical coverage.



Data Confidence: Integrated SureTrend® Data Management software enables trending, remote review, and audit-ready BAX results.

Customer Benefits



Faster Release Decisions: Reduce product holding times and unnecessary inventory loss.



Fewer False Positives/Negatives: Save confirmation costs and avoid recalls.



Expert Global Support: Responsive and experienced team provides support to keep you up and running.



Operational Efficiency: Standardized workflow across pathogens, products, and sites.



Regulatory Confidence: Globally recognized validations simplify export and compliance readiness.



End-to-End Connectivity: From method setup to data management and audit readiness, Hygiena integrates your entire workflow with SureTrend software for centralized results tracking and decision-making.



Broad Assay Portfolio: Test multiple pathogens and matrices using one standardized, validated BAX platform.

The BAX System is the most certified PCR solution in food safety; trusted worldwide for its speed, specificity, and regulatory acceptance. Other systems may emphasize simplicity or speed, but none combine Hygiena's level of validation breadth, workflow efficiency, and global technical support.

