

Julius

HIGH THROUGHPUT  PLATE READER

PRODUCTIVITY. ACCURACY. TRACEABILITY.

You can count on him.

 ALLIANCE
BIO EXPERTISE 2026



Julius



Julius is a high-throughput, fully automated Petri dish sorter and reader improving your laboratory productivity combining **AI accuracy and enhanced traceability**.

- ✓ Up to 700 plates per hour
- ✓ Automated plate analysis
- ✓ Automated plate sorting
- ✓ Walkaway technology
- ✓ High performances AI modules

You can count on him.

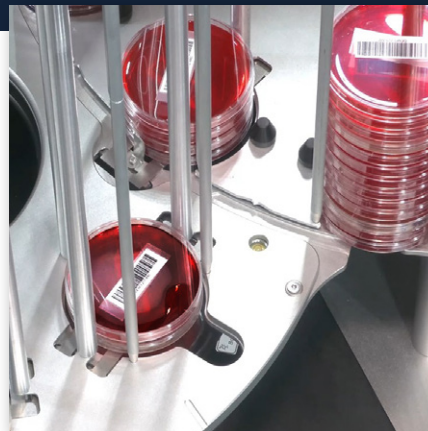
1

Charge your plates



2

Julius sorts the plates



3

Focus on plates with growth



Julius

HIGH THROUGHPUT SORTER & READER

Productivity at scale:

Time and workflow efficiency:

- Fully automated plate management
- High throughput: up to 700 plates per hour
- Predefined or continuous cycle

Multiple media management:

- Media analysis: surface plating and pour plate method
- Possibility to develop custom models
- All media brands
- Artefacts recognition (stickers, bubbles...)

Simplicity and ergonomic design:

- Customizable sorting zones
- Easy to use - simply load and unload



Accuracy reinforced:

Reliability and reproducibility of results:

- Integrated AI models for plate analysis
- Whole plate surface analysis
- >98%* precision compared to reference count

Traceability with confidence:

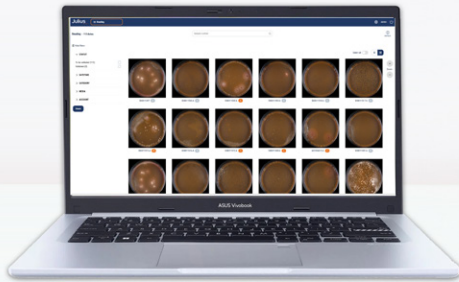
Plates identification and tracking:

- Comprehensive results analysis export (users, media, dilutions, pictures...)
- Error-free fully automated process

Data archiving and exploitation:

- Review all your data on **Julius Quant**
- Ethernet/WiFi for LIMS connection

* For A.B.Eye aerobic AI count v1.0



Full traceability



Image storage for full traceability with server export or LIMS connection

High volume carousel

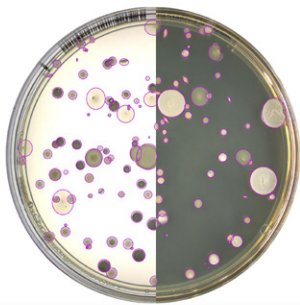
450 plates per cycle in 45 minutes and up to 700 plates per hour in continuous mode



Multiple media cycle



Julius manages different culture media simultaneously in one cycle



Dual-illumination



This dual-illumination technology allows Julius to detect colonies starting from 0.2 mm in diameter

High precision AI analysis

Accuracy rate for sorting Petri dishes over 98%



Barcodes & QR codes reader

Detection and analysis of barcodes, QR codes and data matrix: top, bottom and lateral



Julius^{QUANT}

SMART SOFTWARE FOR MEDIA PLATE ANALYSIS

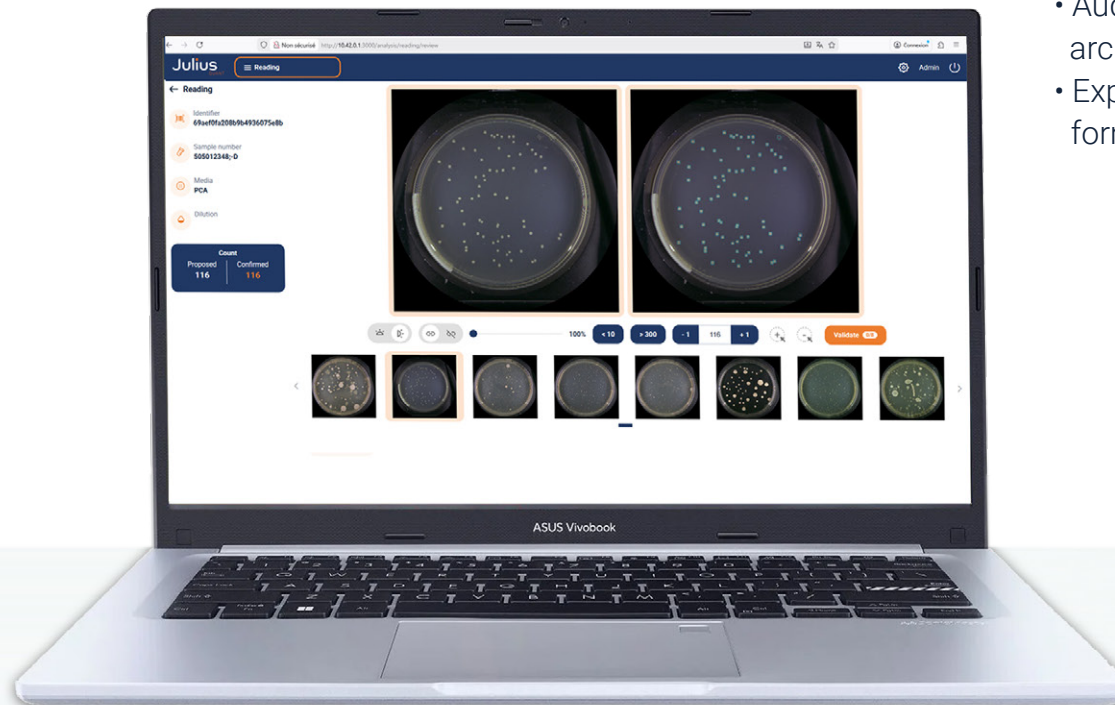
Automated and centralized colony detection, review, and validation from Julius images. A user-friendly interface to visualize, correct, and confirm results. Flexible filtering by date, media type, user...

Accuracy & reliability

- Advanced models for precise colony detection
- Reduced human error thanks to automated analysis
- Consistent, reproducible, and traceable results

Simplicity & usability

- Intuitive interface
- Clear visualization of results



Traceability & compliance

- Audit trail of all analyses with secure archiving
- Export of data to LIMS and standard formats

Julius reading skills

Real experience for real capabilities

Models to trust

Julius AI models are trained on large, representative datasets from independent laboratories and deployed through a rigorous validation and version-control process, ensuring consistent and high-performing analysis across routine laboratory applications.

Plate Sorting (AI) Model v1.0

PCA · TBX · MRS · BP / BP RPF · TSA · DG18 · Mossel · RAPID[®] Salmonella · COMPASS[®] Listeria.

>98%

Recall minimizing false negatives

>98%

Precision compared with the reference count

>98%

Specificity, limiting false positives

A.B.Eye - Total Aerobic (AI) Count v1.0

PCA (Plate Count Agar) media.

97.5%

ISO Agreement

Like a technician undergoing qualification: results compared to a reference expert, within the margin set by the standard.

$R^2 = 0.97$

Correlation

Measures how closely Julius and the technician reach the same conclusions. Closer to 1 = perfect agreement.

+0.45 CFU

Average bias / plate

Slight tendency to count a bit more than the technician. This overestimation reduces the risk of missing a colony.

Results calculated according to ISO 7218:2024.

New culture media models coming soon. Stay tuned!

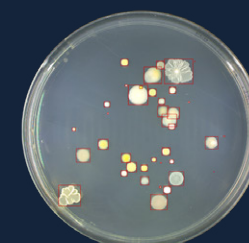
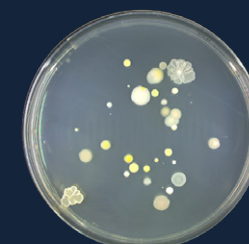
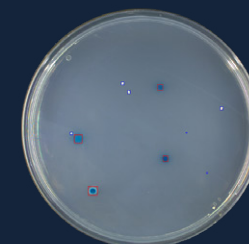
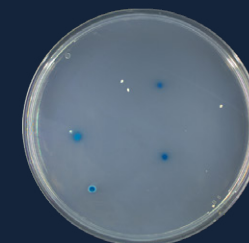


TECHNICAL SPECIFICATIONS

Cycle duration	45 minutes
Optical module	8 megapixels
Carousel material	Aluminium
Barcode reader	Top, bottom and lateral possible
AI analysis	Local - no cloud connection
Connectivity	Wi-Fi / Ethernet / USB port
Power	110-230V AC/DC 50-60Hz
Dimensions	Width : 79.3 cm - length : 120 cm - height : 175 cm
Weight	160 kg



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HIGH THROUGHPUT PETRI DISH READER





EQUIPMENT - REAGENTS - CONSUMABLES
ADAPTED FOR INDUSTRIAL MICROBIOLOGY LABORATORIES



A CONNECTED EQUIPMENT GENERATION
FOR TRACEABILITY AND PRODUCTIVITY



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