

# Faster Yeast & Mould Enumeration

Early contamination warning within 2 days, while the standard day-5 endpoint read is preserved

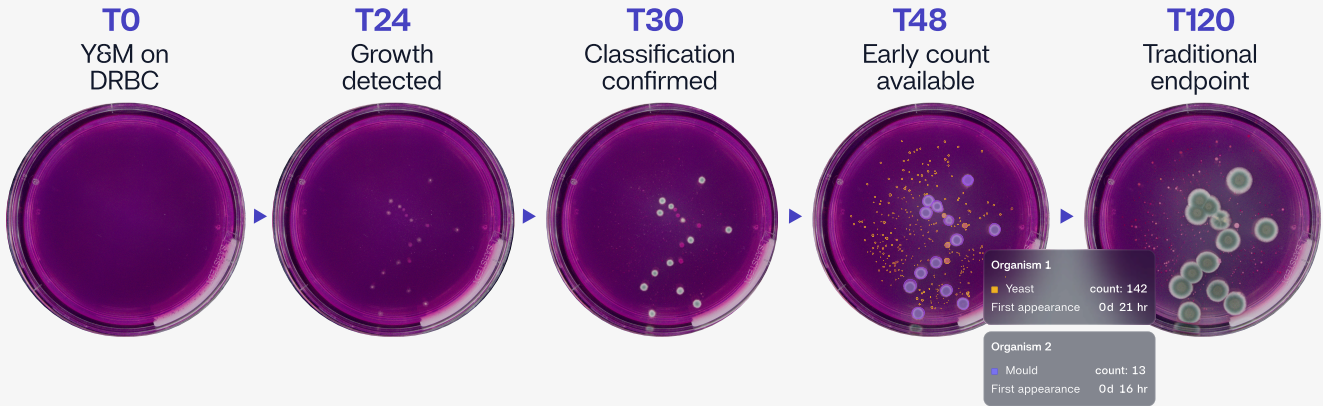
**METHOD**  
ISO 21527 / DRBC . DG18

**PLATFORM**  
RESHAPE SMART INCUBATOR

**APPLICABILITY**  
FOOD & BEVERAGE, PHARMA, COSMETICS

100% method compliance

- Same ISO 21527-1 method
- Same medium (DRBC/ DG18)
- Constant incubation (25°C)
- Earlier visibility. Same final result.
- Full traceability



## The Challenge

**Yeast and mould enumeration** is the bottleneck in finished-product QC. ISO 21527 prescribes incubation at 25°C with reads at day 5 – and slow-growing moulds are routinely held to 7 days. Between those fixed reads, nothing is recorded.

- Contamination is invisible until the next scheduled manual read – up to 5 days after plating
- Product held on release cannot be acted on sooner, even if plates are already signaling growth
- Manual reads at fixed endpoints only – no continuous record, no early alert
- Yeast vs mould differential is error-prone by eye at a single endpoint read

## The Reshape Approach

**Reshape runs the same ISO 21527 method – DRBC or DG18, 25°C, standard petri plates, day-5 endpoint –** but adds continuous imaging throughout incubation. The final enumeration is still delivered at day 5. The difference is what happens in between.

- **Continuous imaging** – automated monitoring without manual reads or plate handling
- **Early contamination detection** – growth flagged in 1.5–3 days, enabling earlier investigation and response
- **AI-powered enumeration** – automated yeast and mould differentiation and counting at the endpoint
- **Complete audit trail** – time-stamped image history and counts for stronger documentation and traceability

### TIME-TO-DETECTION DATA (ANONYMIZED CUSTOMER CASE STUDY)

Reshape analysed finished-product QC plates to quantify how early colony growth becomes detectable relative to the standard endpoint. For each plate, a rolling growth-rate curve identified when the count had stabilised (growth rate below 5%, count at or greater than 90% of maximum). This stabilisation point – from which a reliable early warning could be issued – preceded the standard endpoint by (refer table):

| Organism | Mean early detection | Typical detection window |
|----------|----------------------|--------------------------|
| Yeast    | 80h before endpoint  | 1.5-2 days               |
| Mould    | 28h before endpoint  | 2-3 days                 |