


Product Fact Sheet

CyStain™ BacCount Reagents



Bacteria quantification in
minutes instead of days

Product picture



CyStain™ BacCount Total



CyStain™ BacCount Viable


Product name

CyStain™ BacCount Total
CyStain™ BacCount Viable

Manufacturer information

The CyStain™ BacCount kits are manufactured by
Sysmex Partec GmbH.

Sysmex Partec GmbH



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Sysmex Partec is an ISO 9001:2015 and EN ISO 13485:2016
certified company.

Summary

The CyStain™ BacCount Total kit enables the detection of
the total amount of bacteria in water samples. This is
crucial for water sample analysis and for the analysis of
the microbial ecology. On the other hand, the CyStain™
BacCount Viable kit discriminates between live and
dead bacteria, which is important to monitor successful
inactivation of harmful bacteria in water. Both kits are
designed for the quality control of water of different
sources (ground water, spring water or surface water) but
can also be used to control industrial water.

Productivity values

Much faster analysis compared to classical time-consuming bacterial cultivation methods, detection of almost all bacteria, including viable but non-culturable (VBNC) bacteria, reliable and automatic readout of the results in combination with the compatible CyFlow™ Cube 6 V2m flow cytometer. Use the optional CyFlow™ Robby V2m Autoloading station for a semi-automated enumeration of bacteria in water.

Main features of the CyStain™ BacCount reagents

- Fast detection of bacteria in water samples
- Low limit of detection
- Counts all bacterial cells (TCC kit) or discriminates between dead / living bacteria (VCC kit)
- Detection of all bacteria, including viable but non-culturable bacteria
- Automated read-out of the results in combination with the CyFlow™ Cube 6 V2m flow cytometer
- Easy handling
- Perfect for routine analysis
- Much faster than any bacterial cultivation method

Article numbers

Article number	Item
05-5008	CyStain™ BacCount Total
05-5028	CyStain™ BacCount Viable

Specifications

Features	Description
Technology	<ul style="list-style-type: none"> • Membrane permeable and impermeable DNA dyes
Time-to-result	<ul style="list-style-type: none"> • Less than 20 min
Reportable range (enumeration)	<ul style="list-style-type: none"> • 1 x 10³ to 2 x 10⁵ cells per ml
Limit of detection (CyStain™ BacCount Total)	<ul style="list-style-type: none"> • 200 / ml (with specific treatment of analyzer for cleanness. Details will be announced separately with Application Note) • 500 / ml (with standard workflow)
Limit of detection (CyStain™ BacCount Viable)	<ul style="list-style-type: none"> • 500 / ml
Packaging	<ul style="list-style-type: none"> • 200 samples (for manual measurement) or 1000 samples (for automated measurement with 96-well-plate)
Shelf-life	<ul style="list-style-type: none"> • 12 months
Storage temperature	<ul style="list-style-type: none"> • -25 to -18 °C
Flow cytometer	<ul style="list-style-type: none"> • Recommended for use with the CyFlow™ Cube 6 V2m (Art. No. CY-S-3061R-V2m)
Autoloading station	<ul style="list-style-type: none"> • Recommended for use with the CyFlow™ Robby V2m Autoloading station (Art. No. CY-S-3083-V2m)
Time-to-result of 96 samples with the Robby V2m Autoloading station	<ul style="list-style-type: none"> • 85 min with 96-well-plate