



MALDI Biotyper®

Bacterial Test Standard

Calibration empowering optimal performance with IDealTune™

Innovation with Integrity

Not just *E. coli*. Not just calibration. The key to top performance.

- Calibration in line with good laboratory practice, using a stable and well-characterized reference standard, covering the entire mass range of interest
- Shipped as a stable lyophilized powder, no need for a time-consuming daily cultivation step
- **NEW:** Empowering automated system tuning by the novel IDealTune feature, part of the MBT Compass HT software.
Automated tuning - the key to unlocking unbeatable performance.

Regular calibration ensures good laboratory practice

The mass analyzer in a MALDI-TOF instrument relies on precise measurements of the flight time of ions to calculate the mass of unknown analyte molecules. This flight time can be influenced by various factors such as temperature, pressure, and electronic noise. To calibrate a MALDI-TOF instrument, the mass spectrum of reference compounds with known masses is measured and used to adjust the instrument settings, to accurately reflect the true mass values. This calibration process ensures that subsequent measurements of unknown analytes are accurate and reliable.

Some requirements for a good MALDI-TOF calibration:

- High-quality reference standards, stable and well-characterized
- Covering a mass range relevant for the samples being analyzed
- Sufficient number of reference peaks spanning that mass range of interest
- Appropriate and homogeneous sample preparation minimizing variability

Bacterial Test Standard (BTS) – not just *E. coli*

The Bacterial Test Standard (BTS) is a standardized extract of *E. coli* spiked with two higher molecular weight proteins. It has been developed especially for the quality control process of the MALDI Biotyper system. Its specific composition covers the entire mass range used for reliable identification of microorganisms by the MALDI-TOF system, hence avoiding inaccurate calibration by extrapolation.

It is exactly this precise calibration that enables Bruker's high-precision resistance marker detection and differentiation of challenging species by the MBT HT Subtyping Module.

Order information

Bacterial Test Standard

Part No. 8255343

One box consisting of 5 tubes providing 50 µL per tube

Optimal performance secured by zero-button IDEalTune - not just calibration

Relax about system performance! The new zero-button IDEalTune feature, part of MBT Compass HT software, automatically finetunes the key parameters of the MALDI-TOF system, ensuring stable data quality. Without any user intervention, IDEalTune is performed systematically in the background while analyzing the Bacterial Test Standard, which is anyway part of a sample run.

Forget about tedious preparation of dedicated tuning samples, forget about time-consuming manual tuning, forget about extra costs. Focus on results!

Easy to use and cost-effective

BTS is shipped at ambient temperature as a stable lyophilized powder, with a shelf life of at least 12 months. After easy solubilization, the solution is stable for up to 5 months at -18°C or below. BTS does not require any cultivation step and is cost-effective. The MALDI Biotyper requires only 1 µL BTS per run, even for a full MBT Biotarget 96, which can hold up to 95 samples plus 1 BTS in one single run.



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Please contact your local representative for availability in your country.

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