# Perfect Partners to Unlock Cellular Insights

Understanding cell types and cell-cell interactions with major significance for health and disease

Compatible with thermal cycler adapters for the following 10x Genomics workflows:

- Chromium Single Cell – sequencing for gene expression patterns of each cell
- Visium Spatial – transcriptome discovery in the tissue context
- Xenium Spatial – high-performance in situ single cell spatial imaging
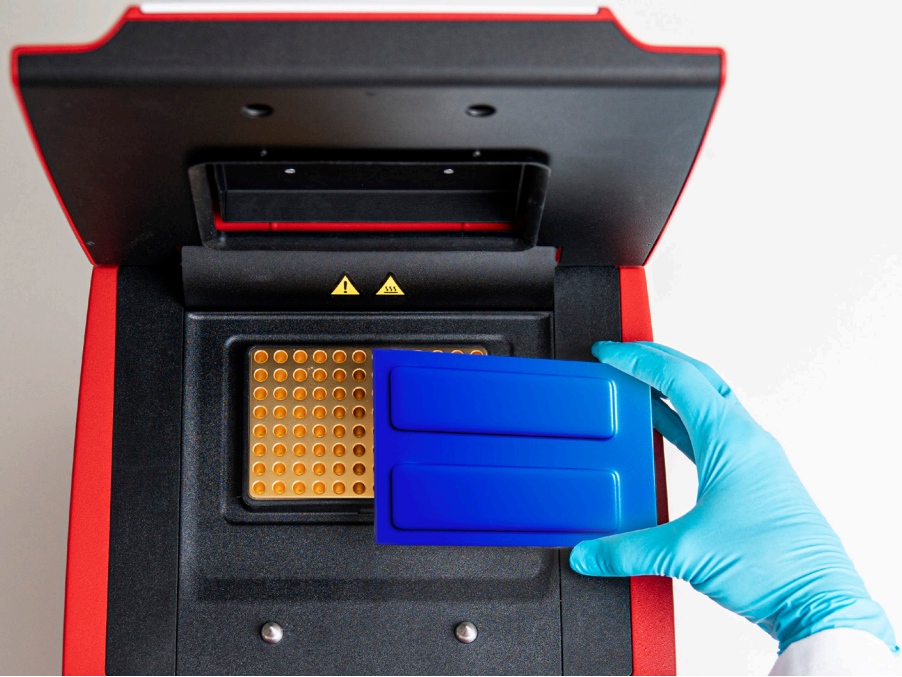
Biometra TAdvanced 96 S & SG – approved due to optimal design

- Silver block with perfect fit for all 10x Genomics thermal cycler adapters
- Reproducible lid pressure even with different adapter heights and sensitive setups with microscope slides
- Outstanding temperature homogeneity ensures precise and uniform incubation of sensitive samples

Biometra TAdvanced – Supported thermal cycler for 10x Genomics Single Cell and Spatial Applications

What drives your research?

From DNA library preparation for Next Generation Sequencing (NGS) to single cell or tissue genomics and transcriptomics, the Biometra TAdvanced ensures reliable and future-proofed solutions for your demanding research tasks.

Unlocking cellular secrets with single-cell sequencing

Explore single cell genomics and transcriptomics and discover breakthroughs in cell biology. As a researcher, you can dive deeper into immune profiling, identify targets for therapeutics in cancer research and gain new insights in developmental biology.

Mapping the landscape of disease with spatial transcriptomics

Decode the spatial resolution of gene expression in tissues and gain invaluable insights into tumor heterogeneity, disease progression and response to therapies. Experience first-hand the transformative power of spatial transcriptomics in the discovery of novel biomarkers and therapeutic targets that will shape the future of personalized medicine.

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Premium Thermal Cycler for NGS Sample Preparation

Take your research to the next level. Unlock powerful insights into gene regulation and expression – from single cells to complex tissues – with the Biometra TAdvanced thermal cycler.

Optimized for critical thermal cycling steps in NGS sample preparation, such as:

- Single-cell sequencing
- Spatial transcriptomics

Validated by 10x Genomics

The Biometra TAdvanced 96 S and 96 SG models are tested and validated for use with all 10x Genomics platforms:

<table>
<tr><td>Typical fields of application</td></tr>
<tr><td>- Oncology
- Immunology
- Developmental biology
- Neuroscience</td></tr>
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Visium Spatial

- Perfect fit for Visium Thermocycler Adapter such as e.g. for Visium CytAssist Spatial Gene Expression workflow

Applications: Whole transcriptome discovery in tissue, spatially resolved gene expression analysis with simultaneous protein, and histology analysis, tissue heterogeneity, spatial organization to investigate cellular interactions and disease mechanisms

Chromium Single Cell

- Recommended for GEM* generation
- Tested with new GEM-X technology

Applications: Gene expression profiles, immune repertoires and epigenetic changes at the single cell level to gain insights into cellular heterogeneity, cell types and cell states

Xenium In Situ

- Perfect fit for Xenium Thermocycler Adapter

Applications: Subcellular resolution for spatial RNA expression profiles in histologic samples, investigation of tumor microenvironment to be at the forefront of state-of-the-art research

> ℹ *For automated workflows the* **Biometra TRobot II** *is an option.*

* Gel Bead-in-emulsion, an emulsion that contains a mixture of biochemistry reagents (uniquely barcoded gel beads) and a cell/nucleus

Discover the
Biometra TAdvanced

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