

G-Band Karyotyping QC Services

KromaTiD is one of the largest service providers in the cell and gene therapy space. We deliver specialized G-band karyotyping services from standard to custom G-band karyotyping assays for cell line quality control and pivotal batch analysis. We offer cell culture and sample prep services to help facilitate your cell line growth. Our team of highly trained cytogenetic analysts provide the accurate and reliable results you expect.



Left: G-banding analysis performed on GM24385 "Genome in a Bottle" cell line. G-banding was used to confirm dGH SCREEN™ study results, which indicated genomic instability and gross rearrangements of chromosome 16 (circled).

Overview of Our Standard G-Band Karyotyping QC Service

- Karyotyping performed by our team of certified cytogeneticists to assess the genomic integrity of your cell lines and edited cell samples.
- Detection of aneuploidy, large inversions, translocations, duplications, deletions, and other defined structural variants.
- Expert culture development for various cell types, including adherent and suspension cells, lymphocytes, NK cells, iPSCs, immune cells, and whole blood samples.

Genomic Integrity G-Band Karyotyping

Certified cytogenetic technologists perform customized analysis to support low-prevalence variant detection. Our Genomic Integrity G-Band Karyotyping Service provides a Genomic Integrity Report, with comprehensive prevalence-based analysis of your reference and treated sample pair, along with a statistical significance comparison report.

Preparing for an IND submission? Partner with KromaTiD experts who will help you devise a customized study plan to provide data on genomic stability, establish metrics for method qualification and set levels for a release test assay designed to align with your specific program requirements.

Our process

- Metaphase cell culture and harvest
- Automated slide preparation to ensure the highest quality results.
- Standardized chromosome staining to enhance visibility and accuracy.
- State-of-the-art imaging and analysis for comprehensive evaluation

Service Pricing

Catalog Number	G-Banding Services	Cost
CYT-002	20 Cells/Sample Assay Execution and Analysis	\$788
CYT-017	20 Cells/Sample Assay Execution and Analysis - Complex Cell Types*	\$2,000
CYT-004	50 Cells/Sample Assay Execution and Analysis	\$1,640
CYT-018	50 Cells/Sample Assay Execution and Analysis - Complex Cell Types*	\$5,000
CYT-012	100 Cells/Sample Assay Execution and Analysis	\$3,255
CYT-026	100 Cells/Sample Assay Execution and Analysis - Complex Cell Types*	\$8,500
CYT-003	200 Cells/Sample Assay Execution and Analysis	\$5,250
CYT-031	200 Cells/Sample Assay Execution and Analysis - Complex Cell Types*	\$12,000

Catalog Number	Reports and Study Packages	Cost
CYT-020	G-Banding Genomic Integrity Report	\$1,600
CYT-021	Custom G-Band Report: Extended Analysis Beyond Standard G-Band Report	Inquire
CYT-022	Genomic Integrity G-Band Karyotyping Package: 100 Cell/Sample In Depth G-Band Analysis to Monitor Cell and Gene Therapy Batch Integrity	\$8,000
CYT-023	G-Banding Qualification Study: Customized Services Including Cell Prep, Assay Execution, Custom R	Inquire

Standard G-banding services include a report on each submitted sample with counts and analysis of abnormalities for all cells plus clonal event karyograms.

The Genomic Integrity Report provides a side-by-side comparison of genomic abnormalities between a control and test sample including a Fisher's exact test to determine significance.

**A "Complex Cell Type" includes those, such as cancer cell lines, which are likely to have complex structural rearrangements, abnormal modal numbers, and potential instability creating highly variable karyotype from cell to cell.*

Catalog Number	Cell Culture Services	Cost
CYT-005	T-Cell Culture Development: Thaw, Growth, and Harvest Optimization	\$1,238
CYT-009	T-Cell Metaphase Prep and Harvest	\$1,238
CYT-006	IPSC Cell Culture Development: Thaw, Growth, and Harvest Optimization	\$1,375
CYT-010	IPSC Metaphase Prep and Harvest	\$1,375
CTY-007	Whole Blood Culture Development: Thaw, Growth, and Harvest Optimization	\$757
CYT-011	Whole Blood Metaphase Prep and Harvest	\$757
CYT-014	NK Cell Culture and Development: Thaw, Growth, and Harvest Optimization	\$1,238
CYT-013	NK Cell Metaphase Prep and Harvest	\$1,238
CYT-024	Complex Cell Type* Culture Development: Thaw, Growth, and Harvest Optimization	\$800
CYT-025	Complex Cell Type* Metaphase Prep and Harvest	\$800

Doing your own cell culture? Try our demecolcine (Colcemid™).

Catalog Number	Product	Cost
COL-001	Demecolcine, 10 µg/mL, 2.5 mL	\$12.00
COL-002	Demecolcine, 10 µg/mL, 5.0 mL	\$20.00
COL-003	Demecolcine, 10 µg/mL, 10.0 mL	\$35.00

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Customer Notification

1. All Products and Deliverables are supplied for internal scientific research purposes only and are not intended for i) human consumption, including, but not limited to, foods or pharmaceuticals, ii) diagnostic purpose including, but not limited to, human or veterinary *in vivo* or *in vitro* diagnostics, or use in cosmetics or other goods. Research purposes means *in vitro* laboratory studies or *in vivo* use in laboratory organisms only.
2. Products and Deliverables are supplied for the Customer's personal research activities and noncommercial use. Products and Deliverables must not be sold or otherwise redistributed without KromaTiD's consent.
3. KromaTiD's full Terms of Sale are available on our website.



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