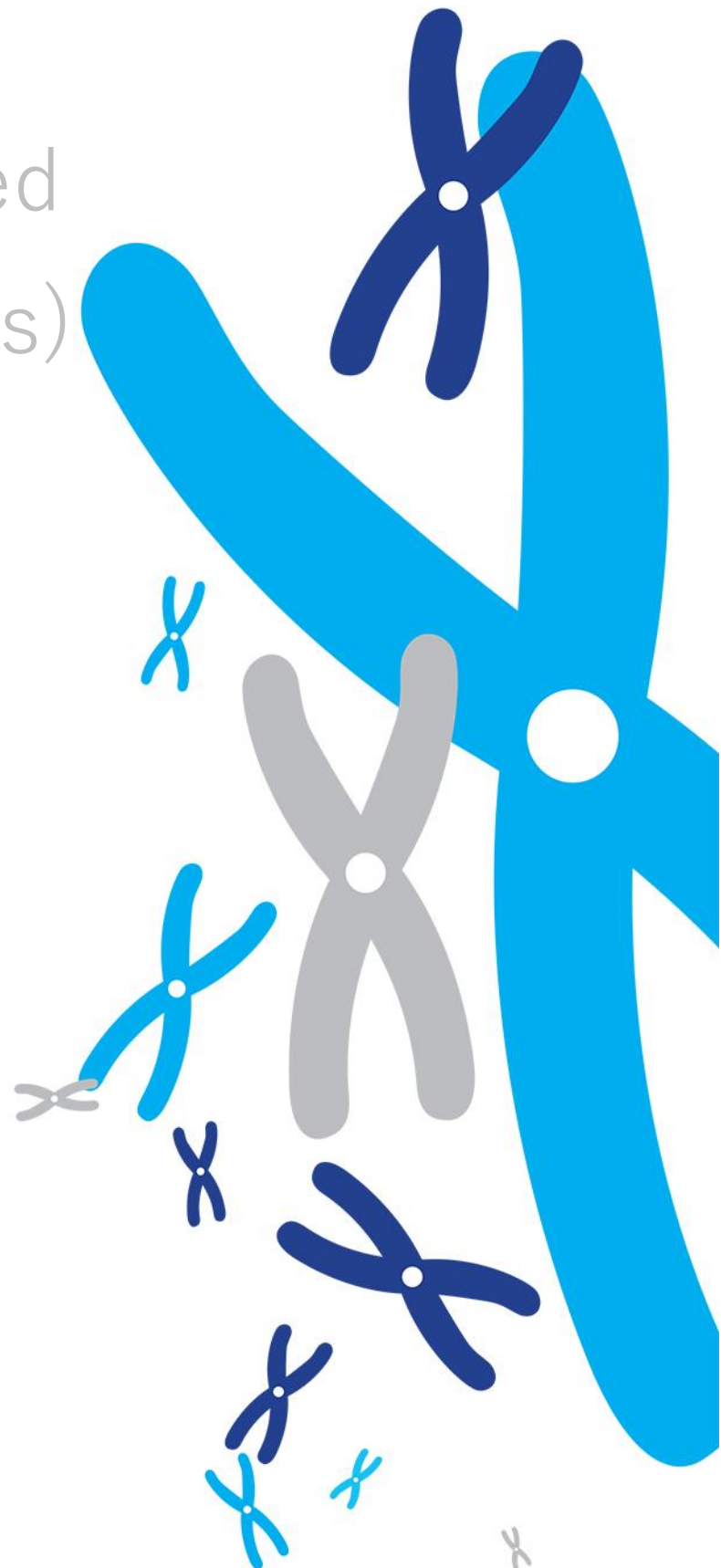


Frequently Asked Questions (FAQs)

AGH Analysis

Cytogenetics Services



Array Genomic Hybridization (AGH)

FAQs

- **What are the cytogenetics services offered by Cell Guidance Systems?**

Cell Guidance Systems offers a range of cytogenetics services, including karyotyping and AGH (array genomic hybridization). FISH analysis may also be available upon request, please contact us at info@cellgs.com for further information.

- **What are the advantages of AGH compared with traditional karyotyping?**

AGH offers a high-resolution analysis which allows for the detection and reporting of abnormalities that would be missed by traditional G-banding. This allows for the reporting of copy number variations (CNVs) and loss of heterozygosity (LOH) on a much finer scale.

- **What are the sample requirements?**

The sample requirements are:

- Sample type: isolated DNA
- Concentration: >50 ng/μl
- Minimum total volume: 1 μg
- Purity: A260/A230: 1.8-2.2 A260/A280: >1.8

- **How should I pack the samples for shipment to Cell Guidance Systems?**

DNA samples are shipped under “Biological Substances Category B”, so the package should be prepared using the triple packaging system consisting of a leak-proof primary inner layer, a leak-proof secondary layer, and an outside box with labels marking the contents as dangerous. Full instructions on packaging and customs clearance indications are provided in the following document: [link to document](#).

- **When can I send my samples for analysis?**

Please do not send any samples without notice. Please contact us by email at info@cellgs.com to schedule your samples for arrival.

- **What are the conditions of the service?**

The array AGH service is only available for human samples. We will provide precise instructions on preparation of samples.

- **How quickly can I expect my results?**

Reports will be provided by Cell Guidance Systems within 15 – 17 business days after the DNA samples have been received at our laboratories. Please note that lead times can be longer during busier periods. If this applies to your order, our team will keep you updated.

- **What data will I be issued at the time of reporting?**

A summary report of the results will be issued following completion of the analysis. This will include the array profile overview, details of any abnormalities detected, and a description of the analysis carried out. This will be emailed to you in PDF format, along with a TIFF file containing an image of the genome overview.

Raw data from the analysis is not available for external transfer and so cannot be provided.

- **What is the resolution of AGH?**

AGH on the Infinium Global Screening Array v3.0 platform has an average resolution of 200kb.

This is an average resolution, which is based upon factors such as the size and number of probes on the array, and the genomic distance between them.

- **What types of abnormalities are reported?**

Acquired copy number variation (CNVs) and loss of heterozygosity (LOH) present in at least ~15-20% of cells will be reported. An assessment of normal variation is made with reference to ~5000 normal control samples and a database of ~10,000 clinical samples. However, benign constitutional (heritable) copy number variations (CNVs) will **not** be reported unless requested.

- **What is the best method for isolating good quality DNA?**

If you do not have experience in isolating DNA, or are experiencing issues with sample quality, then we recommend using the Qiagen DNeasy Blood and Tissue Kit.

Cell Guidance Systems' reagents and services enable control, manipulation and monitoring of the cell, both *in vitro* and *in vivo*

Growth Factors

- Recombinant
- Sustained Release

Exosomes

- Purification
- Detection
- NTA Service

Small Molecules

Matrix Proteins

Cell Counting Reagent

Cytogenetics Analysis



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