



Affymetrix SNP Genotyping Service at ATLAS Biolabs

Sample preparation

High quality genomic DNA, dissolved in **0,1 mM EDTA**, 10 mM TrisHCl, pH 8,0 (**REDUCED EDTA**) at a concentration of 50 ng/μl is needed. The DNA must meet the following requirements:

- DNA must be double-stranded.
- DNA must be free of PCR inhibitors.
- DNA must not be highly degraded. The approximate average size of genomic DNA may be assessed on a 1% agarose gel. High quality genomic DNA will run as a major band at appr. 10-20 kb on the gel.

The following **sources of human genomic DNA** have been successfully tested in Affymetrix' laboratories:

- Blood.
- Cell line.
- Cells originating from the oral mucosa.

The following methods for **extraction and purification of genomic DNA** have been successfully tested in Affymetrix' laboratories:

- SDS/ProteinaseK digestion, phenol-chloroform extraction, microcon or centricon ultrafiltration and concentration.
- QIAGEN/QIAamp DNA Blood Maxi Kit.

Methods that include boiling or strong denaturants cannot be used, because the DNA would be rendered single-stranded.

Affymetrix GeneChip® Human Mapping Arrays

Customers may purchase Human Mapping Arrays directly from Affymetrix and send them to ATLAS Biolabs. Alternatively, Human Mapping Arrays can be purchased from ATLAS Biolabs in combination with genotyping services.

Sending of DNA and arrays

- DNA in single tubes (Eppendorf) should be sent at 2-8°C, but may also be sent at room temperature with an overnight courier. DNA in 96 well plates must be sent frozen on dry ice.
- Arrays can be sent at room temperature, and they must not freeze.

Delivery time

Time between arrival of DNA samples at ATLAS Biolabs and data transmission to the customer will depend strongly on the number of samples to be processed. Delivery time has to be determined individually for each project.

Geschäftsführung
Prof. Dr. Peter Nürnberg

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Kto 1901 035 046
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Steuer.Nr.
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HRB - 59119
Amtsgericht: Köln

Sitz der Gesellschaft
Kerpener Str. 61-69
D-50937 Köln



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Quality control

- ATLAS Biolabs will check the quality of each DNA sample by gel analysis. A set-up fee of 25.- EUR will be charged for each sample that is not processed further due to quality issues.
- During the sample processing procedure, results of the PCR reaction and of the fragmentation reaction will be checked by gel analysis.
- ATLAS Biolabs runs a positive and a negative control in each sample processing batch.
- All quality assurance procedures are electronically documented and available for our customers on demand.

Results

Results are delivered on CD-ROM/DVD or an external HDD, including the following data:

- All original files necessary for data analysis with Affymetrix' or 3rd party software.
- Genotyping results are provided as a spreadsheet (EXCEL) or txt-file.
- Up-to-date annotations for the appropriate Human Mapping Array provided by the NetAffx Analysis Center.

Storage of GeneChip® Human Mapping Arrays and biological material

Human Mapping Arrays will be discarded immediately after finalisation of the experiment. Genomic DNA, biotinylated PCR product, and hybridization mix will be stored for four weeks after finalisation of data analysis. **After this period, any biological material will be discarded *without further notification*.**

In case the customer wants ATLAS Biolabs to store biological material for a longer period, this has to be stated in writing at the time of placing the order.

Data storage

Data will be stored at ATLAS Biolabs for four weeks after CD-ROM was sent to the customer. **After this period, data will be deleted *without further notification*.**

Contact

- customer-support@atlas-biolabs.de
- affymetrix@atlas-biolabs.de

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