



Agilent Expression Profiling Service at ATLAS Biolabs

Service range

Full Service

1. Quality control of total RNA
2. cDNA synthesis
3. cRNA synthesis and labelling
4. cRNA purification and quality control
5. Fragmentation
6. Hybridization, washing, and scanning of appropriate Agilent microarray
7. Data analysis with Agilent's Feature Extraction Software

Core Service

Core Service comprises steps five to seven of Full Service.

Additional Services (extra costs apply)

- Array design with Agilent's eArray Tool
- Extended data analysis according to the customer's needs

Sample requirements (for 4x44K arrays)

- Full Service: Customer sends 1 µg of total RNA (conc. at least 50 ng/µl) or 100 ng of mRNA (conc. at least 10 ng/µl) in molecular biology grade water or TE buffer.
- Core Service: Customer sends 2 µg (conc. at least 100 ng/µl) of non-fragmented, Cy3-labelled cRNA.

Agilent expression arrays

Customers may purchase Agilent expression arrays directly from Agilent and send them to ATLAS Biolabs. Only original packings can be accepted due to the requirements of our quality management system. Alternatively, Agilent expression arrays can be purchased from ATLAS Biolabs in combination with analysis services.

Sending of RNA and arrays

- RNA must be sent on dry ice.
- Arrays must be sent at room temperature.

Delivery time

Delivery time strongly depends on the number of samples sent to ATLAS Biolabs. As a rough estimation, the customer will receive the data 2-4 weeks after receipt of RNA at ATLAS Biolabs provided that no more than 24 samples were sent.



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Quality control

- Quality and quantity of each RNA sample sent to ATLAS Biolabs will be determined by analysis on an Agilent 2100 Bioanalyzer and by photometric analysis. If RNA samples do not fulfill the requirements for array analysis, a set-up fee of 25.- EUR per sample will be charged.
- Quality of each expression array hybridization will be assured by a number of parameters, including e.g. reproducibility, background, spike-in controls, etc.
- All quality assurance procedures are electronically documented and available for our customers on demand.

Results

Results are delivered on CD-ROM/DVD, including the following data:

- Original scan images (.tif)
- Comprehensive quality report (.pdf)
- Results of primary data analysis performed by Agilent's feature extraction software (.txt).

Storage of expression arrays and biological material

Expression arrays will be discarded immediately after finalisation of the experiment. Total RNA, Cy3-labelled RNA 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/DVD was sent to the customer. **After this period, data will be deleted *without further notification*.**

Contact

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