



## Plataforma Affymetrix® de Microarrays: Sample delivery requirements

### DNA samples (for genomic arrays)

It is required a minimum amount of 1 µg of DNA, diluted in low EDTA TE buffer (0.1 mM EDTA, 10 mM Tris HCL, pH 8.0). If you do not have available low EDTA TE buffer, we can provide you.

For **CytoScan Xon assay**, it is required a minimum amount of 500ng of DNA, diluted in low EDTA TE buffer or nuclease free water.

For **OncoScan assay**, it is required a minimum amount of 500ng of DNA, diluted in low EDTA TE buffer or ATE buffer (from *QiAamp® DNA FFPE Tissue Kit*). DNA should be kept refrigerated for no more than 2 weeks, otherwise, kept at -20°C or lower temperature. In case of low concentration, DO NOT concentrate.

For DNA eluted in other reagents, contact us.

### RNA samples (for expression arrays)

It is required a minimum amount of 1 µg of RNA, diluted in RNase free H<sub>2</sub>O. In case of having smaller amount ask us, there are available protocols for low input RNA (a minimum of 500 pg of total RNA).

### miRNA samples (for miRNA arrays)

It is required a minimum of 2 µg of RNA enriched with miRNA and in RNase free H<sub>2</sub>O.

### Sample extraction

DNA and RNA sample extraction is performed by the researcher. For nucleic acid extraction is recommended:

DNA*	DNA from FFPE samples
QIAGEN® - Genra Puregene Kit	QIAGEN® - QIAmp DNA Blood and Tissue Kit (For CytoScan Assay)
5 PRIME - PerfectPure DNA Blood Kit	QIAGEN® - QIAamp DNA FFPE Tissue Kit (For OncoScan Assay) <sup>2</sup>
SDS/ProK digestion, phenol-chloroform extraction, Microcon® or Centricon®(Millipore) ultrapurification and concentration.	

\*Methods that include boiling or strong denaturants are not acceptable, because the DNA would be rendered single-stranded

<sup>1</sup> The DNA extraction protocol has been modified. Contact us for the CytoScan® DNA Purification from FFPE Tissue protocol.

<sup>2</sup> For improved DNA yields, Affymetrix® recommends a modification: add a heating step at 98 °C for 15 minutes to improve the tissue digestion process to release DNA from tissue sections.

RNA from FFPE samples	miRNA
PROMEGA - ReliaPrep™ FFPE Total RNA Miniprep System	Applied Biosystems - mirVana™ miRNA Isolation Kit
QIAGEN - RNeasy® FFPE Kit	Applied Biosystems - RecoverAll™ Total Nucleic Acid Isolation Kit for FFPE
Life Technologies - RecoverAll™ Total Nucleic Acid Isolation Kit for FFPE	QIAGEN - miRNeasy Mini Kit
Beckman Coulter Genomics - Agencourt FormaPure® Kit	Invitrogen - PureLink™ miRNA Isolation Kit
NuGEN - Prelude™ FFPE Isolation Module	Invitrogen - TRIzol® reagent (total RNA only) with additional overnight –20°C precipitation step during isopropanol precipitation.

### **Sample delivery**

DNA samples will be preferably sent at 4 °C or -20 °C.

RNA samples will be sent at -80 °C in dry ice.

All the samples must be sent with the *Sample delivery form* attached.

Samples must delivered to:

#### **Mar Mallo / Francesc Solé**

Plataforma Affymetrix de Microarrays  
 Institut de Recerca Contra la Leucèmia Josep Carreras

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### **Sample quality analyses**

The sample quality analyses will be performed at sample arrival time, in order to assess the purity and integrity of DNA and RNA samples. This procedure will be done by *Plataforma Affymetrix® de Microarrays*. If the samples meet the requirements for inclusion in the microarray study, we will proceed to it (the sample quality analysis is included in the price). If it fails, we will charge it.