

RNA Extraction from Breast Cancer Xenografts and Lymph Node Metastases

at The Institute of Cancer Research

CONTEXT

Within the context of The Institute of Cancer Research, ex vivo tumor tissues are being analyzed to study the gene expression of breast tumors and their metastases.

Breast cancer xenografts from different cell lines (MDA-MB-435 and GI-101), as well as their lymph node matastases, were frozen in liquid nitrogen after collection.

MATERIAL

- Precellys®24
- Precellys®24 kit CK14 (small ceramic beads)
- Sample: tumors from breast cancer xenographs and lymph node metastases (frozen)
- Buffer : 600µl of lysis buffer (RTL and ß-mercaptoethanol)

PROTOCOL

- Precellys®24 parameters: 5500rpm, 1x20 sec.

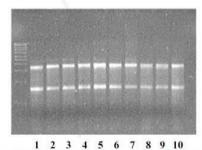
RESULTS

In collaboration with The Institute of Cancer Research, McElain Laboratories, Sutton UK.

RNA extraction are perfored following 10 differents protocols:

Number	Sample	Time	Number	Sample	Time
1	Primary Tumors	10 Sec.	6	Primary Tumors	20 Sec.
2		3 x 10 Sec.	7	Lymph node metastases	20 Sec.
3		20 Sec.	8		20 Sec.
4		20 Sec.	9		20 Sec.
5		20 Sec.	10		20 Sec.

RNA gel procedure: 0.5 µg of total RNA diluted in 15µl of denaturing loading buffer (containing urea) denatured and run on a 1% agarose gel in 1x TBE at 140v for 1hour.



1 2 3 4 3 6 7 8 9 10

Gel electrophoresis analysis after the 10 protocols. Efficiency is validated on the primary tumors and lymph node metastases.



CONCLUSION

The Precellys® kits allow a quick and effective homogenization of the xenograft tissues, and the total RNA extracted with an appropriate kit following tissue lysis with the Precellys® kits is of good quality.



For more details, please contact precellys@bertin.fr or visit our website



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