



RNA Extraction from Human Skin Biopsies

Mouchet¹ ²N., Galibert¹ M.D. I) UMR 6061 CNRS,
Rennes (France) 2) Proclaim, Saint-Gregoire (France)

CONTEXT

The understanding of molecular mechanisms and gene regulation involved in pigmentation and inflammatory processes, is needed to identify new therapeutic targets. For gene expression quantification, RNA is extracted from skin biopsies exposed and unexposed to UV radiation.

RESULTS

Compared to classical lysis (chaotropics ions + β - Mercapto ethanol + Vortex), RNA yield increased from 2 to 4 fold (Nanodrop quantification). RNA quality was assessed using a 2100 Bioanalyser. RNA Integrity Number (RIN) is over 8, meaning good quality.

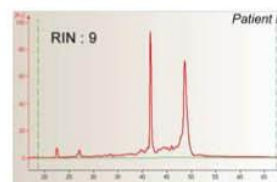
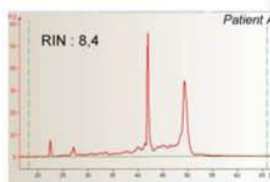
MATERIAL

- Precellys[®]24
- Precellys[®] kit CK14 (small ceramic beads)
- Sample : human skin biopsies (40-70mg)
- Buffer : RA1 lysis buffer (Macherey- Nagel) +1% β - Mercapto ethanol (350 μ l)

	Classical Lysis	Precellys Lysis
Sample 1	124,6 ng/ μ l	454,0 ng/ μ l
Sample 2	160,0 ng/ μ l	638,0 ng/ μ l
Sample 3	198,7 ng/ μ l	801,1ng/ μ l

PROTOCOL

- Precellys[®]24 parameters:
6300 rpm, 6x23 sec., 2 min. break
(Samples are chilled on ice between each cycle)
Cryolys Option should be used to keep the samples at low temperature.



Chromatograms from 2 patients A and B



CONCLUSION

RNA extracted in highest quantity using Precellys[®]24 allowed us to study transcription modifications of several genes implicated in pigmentation or inflammation after UV-solar-spectrum-radiation corresponding to 1 to 2 MED (Minimal Erythema Dose).

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



IEMS機器株式会社

<http://www.technosaurus.co.jp>

- 東京
〒162-0805 東京都新宿区矢来町 113 番地 TEL(03)3235-0661(代) FAX(03)3235-0669
- 大阪
〒532-0005 大阪市淀川区三国本町2丁目12番4号 TEL(06)6396-0501(代) FAX(06)6395-2588
- 福岡
〒812-0054 福岡市東区馬出 1 丁目 2 番 23 号 TEL(092)631-1012(代) FAX(092)641-1285

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