

The Oragene®•RNA for Expression Analysis Self-Collection Kit is the only all-in-one system for the collection, stabilization and transportation of high quality mRNA from saliva.



"I was successful in detecting three different miRNAs by RT-PCR after purification of RNA from a 300 ul saliva/Oragene-RNA sample using the Oragene-RNA Saliva Self-Collection Kit."

Andrew Jakymiw, Ph.D.
University of Florida
Department of Oral Biology

Product Features & Benefits

No other non-invasive collection method offers reliable self-collection and room temperature stability of mRNA.

- Non-invasive, reliable self-collection that increases compliance and decreases costs
- Stable for months at room temperature
- FDA registered, CE & IVD certified

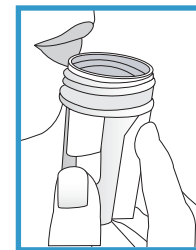
Never before have researchers been able to leverage an easy-to-use, non-invasive self-collection kit for RNA samples.

Genetic research starts with the collection of nucleic acid samples. Oragene is the easiest way to collect high quality RNA from more donors, with the least cost and complexity.

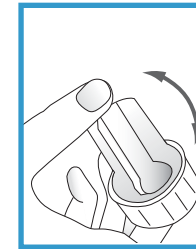
Superior to blood

- Higher donor compliance with painless self-collection
- Lower collection costs with no phlebotomy required
- Safer handling by reducing infectious risk

Easy RNA Collection



STEP 1:
Donor delivers saliva into the Oragene•RNA collection vial.

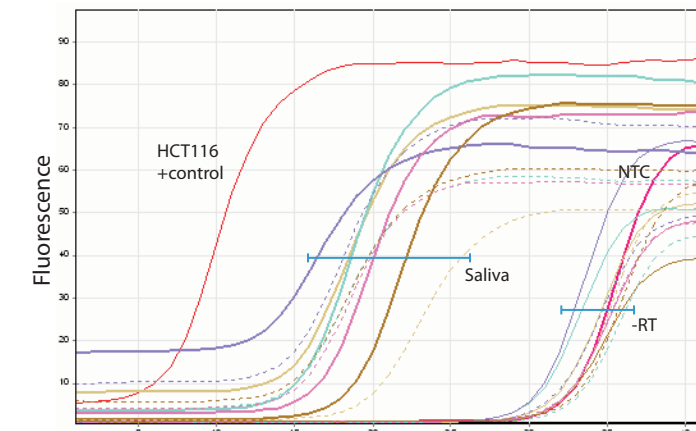


STEP 2:
Capping the container releases RNA-preserving fluid which then mixes with saliva. RNA is now stable for months at room temperature.



Specificity & Sensitivity of Chemistry

Human RNA in Oragene•RNA/saliva samples is ideal for Real-time PCR analysis.



This illustration demonstrates Real-time PCR data for 5 Oragene•RNA/saliva samples stored at room temperature for 1 (solid lines) and 8 weeks (dashed lines) before being purified and probed using primers for human 18S rRNA. RNA from cultured HCT116 cells was used as a positive control.

Donor	Time (weeks)	Ct value for human 18S rRNA	-RT Ct value for human 18S rRNA	CT value for human β -actin	-RT Ct value for human β -actin
A	1	12.6	26.7	23.6	29.8
	8	13.0	29.1	23.2	30.2
B	1	13.7	27.9	23.2	32.6
	8	16.5	28.6	27.0	29.6
C	1	13.9	26.5	22.5	30.6
	8	13.8	27.8	23.0	31.9
D	1	13.7	28.4	26.2	31.8
	8	13.3	28.5	25.3	30.1
E	1	14.9	28.6	25.6	30.8
	8	13.6	29.1	22.7	28.1

Room Temperature Stability

No other RNA collection option enables room temperature stability of total RNA for months. Stability is demonstrated as all data points over a 56 day period are within a ± 2 CT value.

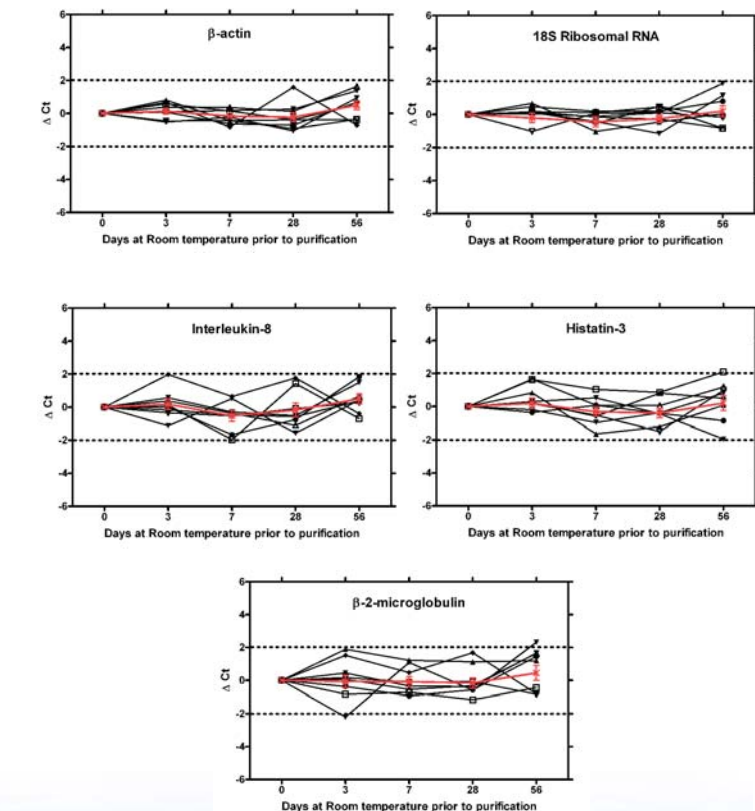


Figure 3: Summary of Ct values for 5 genes. RNA from saliva from 8 donors collected and stored up to 8 weeks was purified at given time points. Real-time PCR was used to detect the 5 genes of interest. Ct values at each time point were compared to Ct values obtained from samples purified immediately after collection. The red curve represents the average Δ Ct for all donors.

The best way to collect high quality RNA for Expression Analysis.

The best way to collect high quality RNA.

Downstream Applications

RNA from Oragene is ideal for the following applications:

- Human mRNA expression profiling
- MicroRNA studies
- Developing "expression signatures" of disease



DNA Genotek Inc.
29 Camelot Drive
Ottawa, ON Canada
K2G 5W6

Order information:
RE-100: Oragene•RNA Self-Collection Kit

Also Available:
OG-100 Oragene•DNA VIAL Format Kit
OG-250 Oragene•DNA DISC Format Kit
OG-300 Oragene•DNA TUBE Format Kit

Accessories:
Complete Mailing Solution
Saliva Collection For Young Children

Toll-free North America: 1.866.813.6354
Tel. Local: 613.723.5757
Fax: 613.723.5057

www.dnagenotek.com
info@dnagenotek.com

RNA Collection Method Comparison

	Blood Collection	Oral Collection with Oragene•RNA
RNA Stability at Room Temperature	3 days	60 days
Self Collection	✗	✓
Easy shipping	✗	✓
Non-invasive	✗	✓
Low infectious risk	✗	✓
Total RNA Yield	* Sufficient RNA for >600 RT-PCRs/mL blood	#RNA sufficient for >320 RT PCR/mL of saliva
A₂₆₀/A₂₈₀	1.8-2.2	>1.8
Pre-purification incubation	120 min	90-120 min
Prep-time	90 min	50 min
RT- real-time PCR	✓	✓

*Assuming 5ng total RNA is used per cDNA reaction prepared according to the Invitrogen M-MLV Reverse Transcriptase protocol and using 2 ul of cDNA per RT-PCR reaction

Assuming 6 uL of eluted material is used per cDNA reaction prepared according to the Invitrogen M-MLV Reverse Transcriptase protocol and using 2 uL of cDNA per RT-PCR reaction

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Oragene®•RNA for Expression Analysis Self-Collection Kit

The best way to collect high quality RNA

