

Frequently Asked Questions

1. MitoProd technology's advantages:

What are the differences between the MitoProd RNA produced *in vivo* and RNA produced by chemical synthesis?

Thanks to its patented RNA production's technology using yeast mitochondria, the MitoProd RNA are delivered in 100% homogeneous batches which ensures superior effectiveness than chemically synthesized RNA at equivalent quantity. In addition, once the strain producing RNA is established, the scale up is very simple, ensuring the production of greater lots without increasing amounts of time.

2. RNA characteristics :

What is the average molecular weight of a siRNA, and how do I convert nmol to ug values?

The molecular weight of a siRNA MitoProd is approximately 20 µg / nmol.
50 nmol of a MitoProd siARN correspond to approximately 1mg.

What is the stability of MitoProd RNA?

The MitoProd RNA are stable when stored 6 months at -80 °C in RNase free conditions. To prevent your RNA from any RNase degradation, we recommend that you should aliquot your RNA upon receipt to avoid freezing/thawing steps.

3. MitoProd RNA packaging :

How are the MitoProd RNA delivered?

The MitoProd RNA are provided dissolved in RNase free water or in TE buffer. They are shipped in dry ice packages.

Do I need to anneal, deprotect or desalt my QIAGEN siRNA?

The Mitoprod RNA are ready to use. No deprotecting, annealing, quantification or desalting steps are required. You receive your RNA, you use them: it is very simple!

4. Production's capabilities :

What is the production time of a custom RNA?

Your first batch can be delivered after the two-months engineering step.

What are the MitoProd custom RNA production's capabilities?

Our current production's capabilities are 50 mg per month. We are working to change the production scale in order to increase our capacity to 200 mg per month by mid 2008.

What are the MitoProd RNA production's scales offered?

The MitoProd siRNA are now delivered in homogeneous batches from 100 ng to 20 mg (5 nmol to 1000 nmol). The custom RNA are offered in up to 50 mg batches.

5. Quality Control :

Can I use the MitoProd RNA in *in vivo* systems?

The MitoProd RNA are certified RNase and endotoxin free, so that they can be used in *in vivo* systems. In addition, our team is working to the establishment of the GMP standard (Good Manufacturing Practice), which should be achieved in early 2009.

How is the quality of MitoProd RNA controlled?

The MitoProd RNA undergo stringent quality controls to ensure their purity and the absence of RNases and endotoxins. The purity of each batch is controlled by HPLC chromatography.

The absence of RNases contamination is controlled by comparing HPLC profiles before and after incubation during 16 hours at 37°C.

The endotoxin contamination is measured by the chromogenic LAL method. The result has to be less than 6 EU / mg RNA.

6. Facilities :

I designed my RNA on my own. Is MitoProd able to synthesize it?

Of course. MitoProd offers to produce custom RNA transcripts from 20 to 5000 bases in quantities up to 50 mg.

I have chosen my RNA's sequence, what does MitoProd need to start the production process?

Send us the sequence in text format and we do the rest!

7. Pricing :

What are the prices of the MitoProd RNA?

To get a personalized offer, please contact us by email at contact@mitoprod.com or by phone at +33 556 001 243.

8. Further information :

I lost the Product Certificate for my siRNA. How can I get a copy?

You can download all the specification sheets on our website www.mitoprod.com, under "Products."

I lost the Quality Control Certificate for my siRNA. How can I get a copy?

You can contact Sophie by email at sophie@mitoprod.com or by phone at +33 556 001 243.