

## Support protocol

### Total RNA extraction from saliva samples collected with Oragene<sup>®</sup>•RNA (Genotek) (Rev. 02)

This support protocol describes the RNA isolation from saliva which has been collected in Oragene<sup>®</sup>•RNA (Cat.No. RE-100; DNA Genotek Inc., Canada).

When samples are received in the lab, shake them vigorously for 8 seconds or longer. Thorough mixing of the Oragene<sup>®</sup>•RNA solution and the saliva is necessary to ensure maximum RNA recovery and stability.

Before starting the preparation, heat a water bath to 50°C and 90°C for step 1 and step 3, respectively. Check if Wash Buffer RA3 and rDNase were prepared according to the NucleoSpin<sup>®</sup> RNA II user manual.

#### Procedure

1. Incubate entire sample in Oragene<sup>®</sup>•RNA vial at **50°C** for **1 h** in a water bath.

***Note:** Entire sample must be heated at 50°C prior to any subsequent purification. Samples may be stored at room temperature for up to 8 weeks or stored frozen at -20°C indefinitely before or after the heating step.*

2. Transfer **250 µL of sample** into a 1.5 microcentrifuge tube.

3. Incubate at **90°C** for **15 min**. Let cool down to room temperature (18-25°C).

4. Add **1/25 volume (10 µL) of Oragene<sup>®</sup>•RNA Neutralizer Solution** (supplied with Oragene<sup>®</sup>•RNA kit). Vortex to mix thoroughly.

5. Incubate **on ice** for **10 min**.

6. Centrifuge in microcentrifuge at maximum speed (**>13,000 × g**) for **3 min**.

7. Carefully transfer the clear supernatant into a fresh microcentrifuge tube. Discard the pellet containing impurities.

8. Add **250 µL Buffer RA1** and **3.5 µl β-mercaptoethanol** and mix.

9. Add **250 µL ethanol (96%)**, mix, and spin down briefly.

10. Continue with **step 6 (Bind RNA)** of the **standard protocol**: Load the sample to the NucleoSpin<sup>®</sup> RNA II Column.

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**MACHEREY-NAGEL GmbH & Co. KG** · Neumann-Neander-Str. 6-8 · 52355 Düren · Germany  
Germany  
and international:  
Tel.: +49 24 21 969-0  
Fax: +49 24 21 969-199  
E-mail: info@mn-net.com

Switzerland:  
**MACHEREY-NAGEL AG**  
Tel.: +41 62 388 55 00  
Fax: +41 62 388 55 05  
E-mail: sales-ch@mn-net.com

France:  
**MACHEREY-NAGEL EURL**  
Tel.: +33 388 68 22 68  
Fax: +33 388 51 76 88  
E-mail: sales-fr@mn-net.com

USA:  
**MACHEREY-NAGEL Inc.**  
Tel.: +1 484 821 0984  
Fax: +1 484 821 1272  
E-mail: sales-us@mn-net.com