

**Supplementary Protocol for the Isolation of DNA from Norgen's Swab Collection and DNA Preservation System using Norgen's Saliva DNA Isolation Kit**  
**Product #: 45690**

**Customer-Supplied Reagents**

- Isopropanol
- 96-100% Ethanol
- Norgen's Swab Collection and DNA Preservation System (Cat# 45690)
- Norgen's Saliva DNA Isolation Kit (Cat# RU45400)

**Isolation of DNA from Swabs**

1. Add 20  $\mu$ L of **Proteinase K** (vortex before use) to the swab collection tube (blue cap). Mix by vortexing and incubate at 55°C for 1 hour.
2. Aliquot 500  $\mu$ L of preserved sample to a microcentrifuge tube (user provided).
3. Add 200  $\mu$ L of **Binding Buffer B** to the saliva sample. Mix by vortexing and incubate at 55°C for 5 minutes.
4. Add 720  $\mu$ L of **Isopropanol** and mix by vortexing for a few seconds.
5. Assemble a column with one of the provided collection tubes.
6. Apply up to 650  $\mu$ L of the lysate to the **Spin column** and centrifuge for 1 minute at 6,000 RPM (~3,800 x g).  
**Note:** Ensure the entire sample has passed through into the collection tube by inspecting the column. If the entire sample volume has not passed, spin for additional 1 minute at 10,000 RPM (~10,000 x g).
7. Discard the flowthrough and reassemble the spin column with its collection tube.
8. Repeat with remaining lysate (*you may need to repeat a total of three times to ensure all lysate passes through the column*).
9. Apply 500  $\mu$ L of **Wash Solution A** to the column (ensure EtOH is added) and centrifuge for 1 minute at 8,000 RPM (~6,800 x g). Discard the flowthrough and reassemble the spin column with its collection tube.
10. Apply 500  $\mu$ L of **Wash Solution A** to the column and centrifuge for 1 minute at 14,000 RPM (~20,000 x g), a maximum speed. Discard the flowthrough and reassemble the spin column with its collection tube.
11. Spin the column for 2 minutes at 14,000 RPM (~20,000 x g) or at maximum speed in order to thoroughly dry the column. Discard the collection tube.
12. Place the column into a fresh 1.7 mL Elution tube provided with the kit.
13. Add 50  $\mu$ L of **Elution Buffer B** to the column. Incubate for 5 minutes at 55°C.
14. Centrifuge for 2 minutes at 2,000 RPM (~ 425 x g), followed by a second spin for 1 minute at maximum speed.

**Technical Support**

Contact our Technical Support Team between the hours of 8:30 and 5:30 (Eastern Standard Time) at (905) 227-8848 or Toll Free at 1-866-667-4362.

Technical support can also be obtained from our website ([www.norgenbiotek.com](http://www.norgenbiotek.com)) or through email at [techsupport@norgenbiotek.com](mailto:techsupport@norgenbiotek.com).

3430 Schmon Parkway, Thorold, ON Canada L2V 4Y6  
Phone: (905) 227-8848  
Fax: (905) 227-1061  
Toll Free in North America: 1-866-667-4362