Using NucleoSpin® Tissue for purification of DNA from Cyanobacteria (Rev. 02)

Before starting with the preparation, set incubators or water baths to 56°C and 70°C, respectively. Before elution, equilibrate Elution Buffer BE to 70°C. Prepare Buffer B3, B5, Proteinase K solution according to the user manual. and the extra buffer.

Prepare the **extra buffer** containing 50 mM Tris/Cl (pH 8), 50 mM EDTA, supplemented with 1 % (v/v) Triton X-100, 20 mg/mL lysozyme, 30 µL RNase (12 mg/mL).

Note: Do not vortex genomic DNA!

Procedure

1. Prepare sample.
Centrifuge an appropriate volume of culture adjust to a final Chl*a* content of 30 µg – 40 µg for **5 min** at **full speed.** Remove supernatant carefully.

2. Pre-lysis.
Resuspend the pellet carefully in **170 µL extra buffer** (well known as Smoker B) by pipetting up and down. Incubate for 30– 60 min at 37°C mix gently several times during incubation.

Note: The lysate becomes clear at this stage.

Add **25 µL Proteinase K** (22 mg/mL) and incubate at 56°C for 60 min, mix several times by inverting the tube during this incubation.

Proceed with step 3 of the standard protocol.

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