



**From:** Vojtech <[REDACTED]>  
**Sent:** Monday, October 30, 2023 4:34 PM  
**To:** Public <[REDACTED]>  
**Subject:** Re: Important message for the Project 13 Inquiry Dr Vojtech Hlinka

I would like to make a further clarification regarding the hearing today.

1. Extraction buffer step at 37 degrees Celsius.

Notes: Denaturation of DNA is not required for DNA extraction. Denaturation can sometimes help, but as Thomas Nurthen stated, denatured DNA can breakdown more easily during extraction and actually give worse results in yield. Denatured DNA is often more prone to hydrolytic degradation and enzymatic and chemical attack than unnatured DNA during extraction. DNA denaturation temperature is typically around 56-58 degrees Celsius with most extraction buffers.

2. Lysis buffer at 65 degrees Celsius

Denaturation has remained at 65 degrees Celsius as per protocol on both the manual and Robotic DNA IQ™ method as per the SOPS. This step is a critical step and denaturation was required to allow sufficient binding of the DNA to the DNA IQ resin. It is not a step in which denaturation has been omitted.

Thank you.

Regards,

Dr. Vojtech Hlinka

