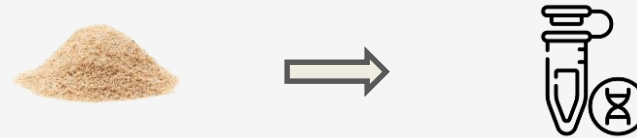


Genetic wood identification via Taxon Primer

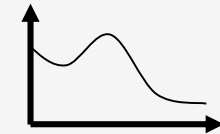
1. Homogenisation



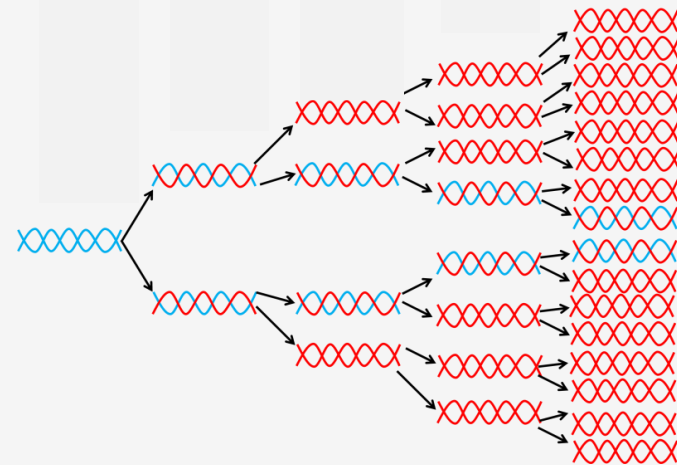
2. DNA extraction



3. Measurement of the DNA quantity and quality

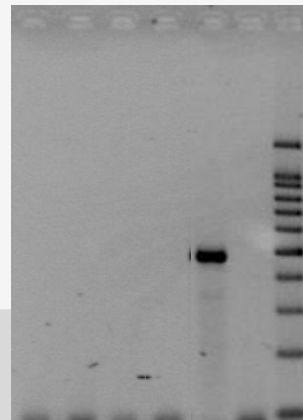


4. Amplification via Taxon Primer

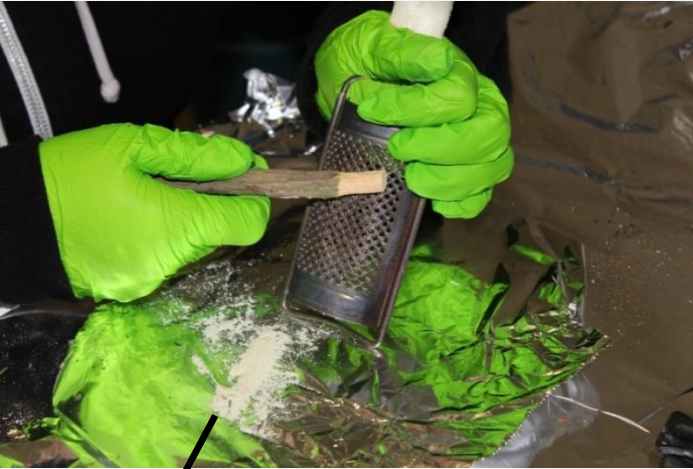


5. Detection

1 2 3 4 5 - M



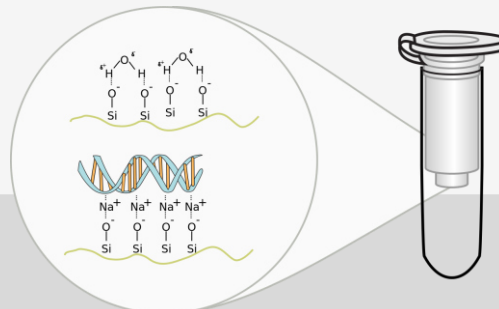
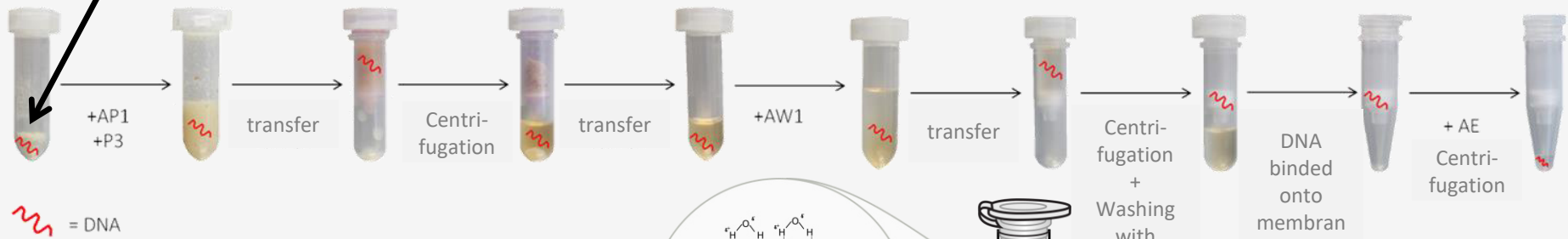
1 Homogenisation



1 Homogenisation



2 DNA extraction

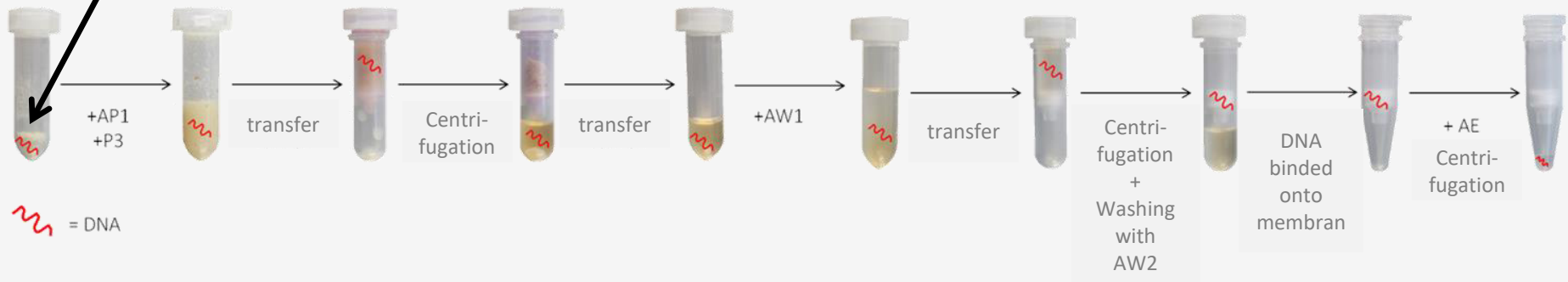
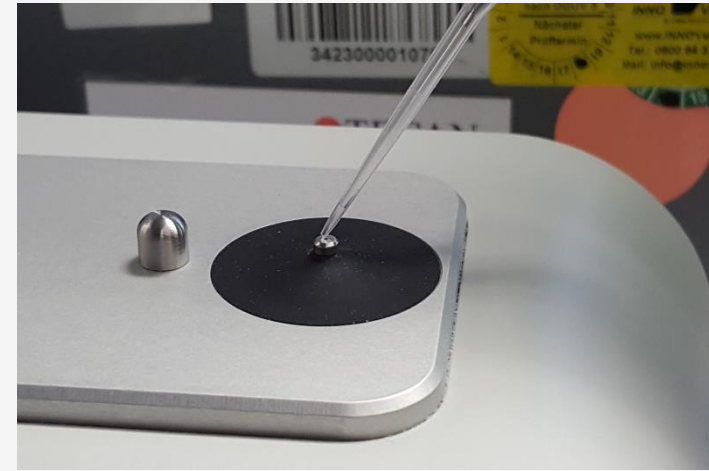


1 Homogenisation



2 DNA extraction

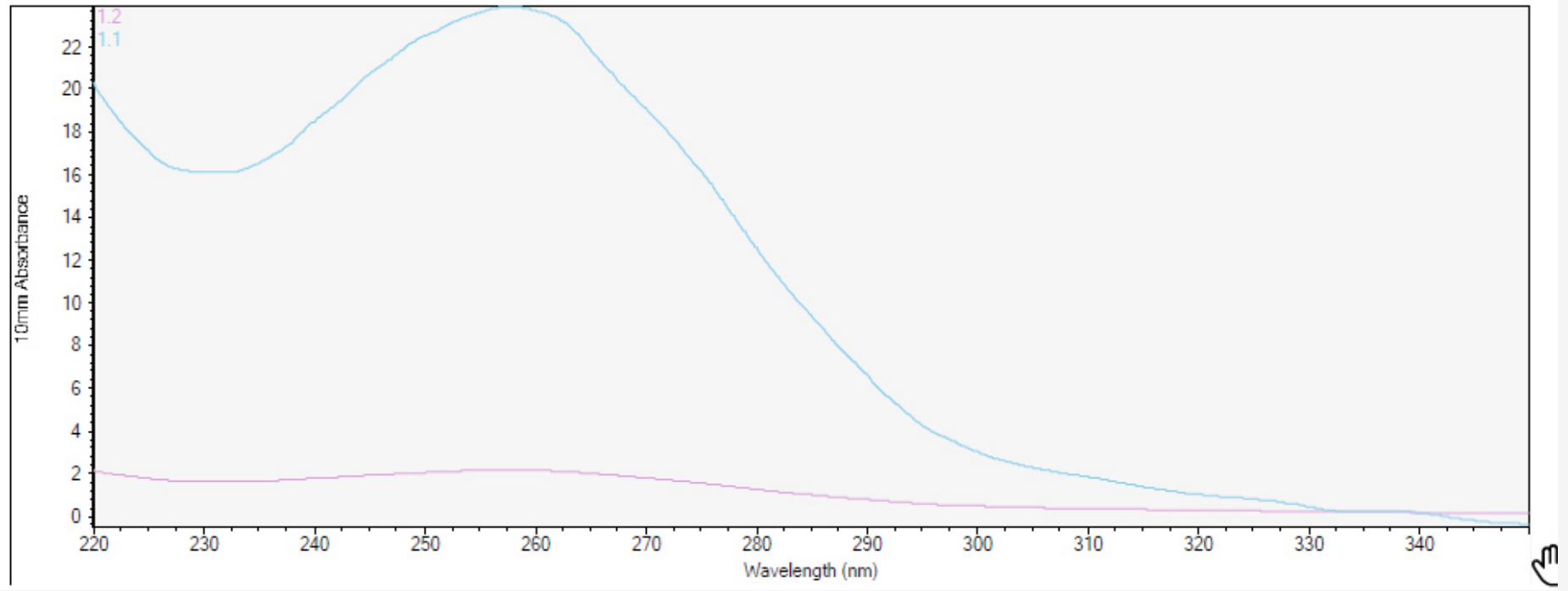
3 NanoDrop Measurement



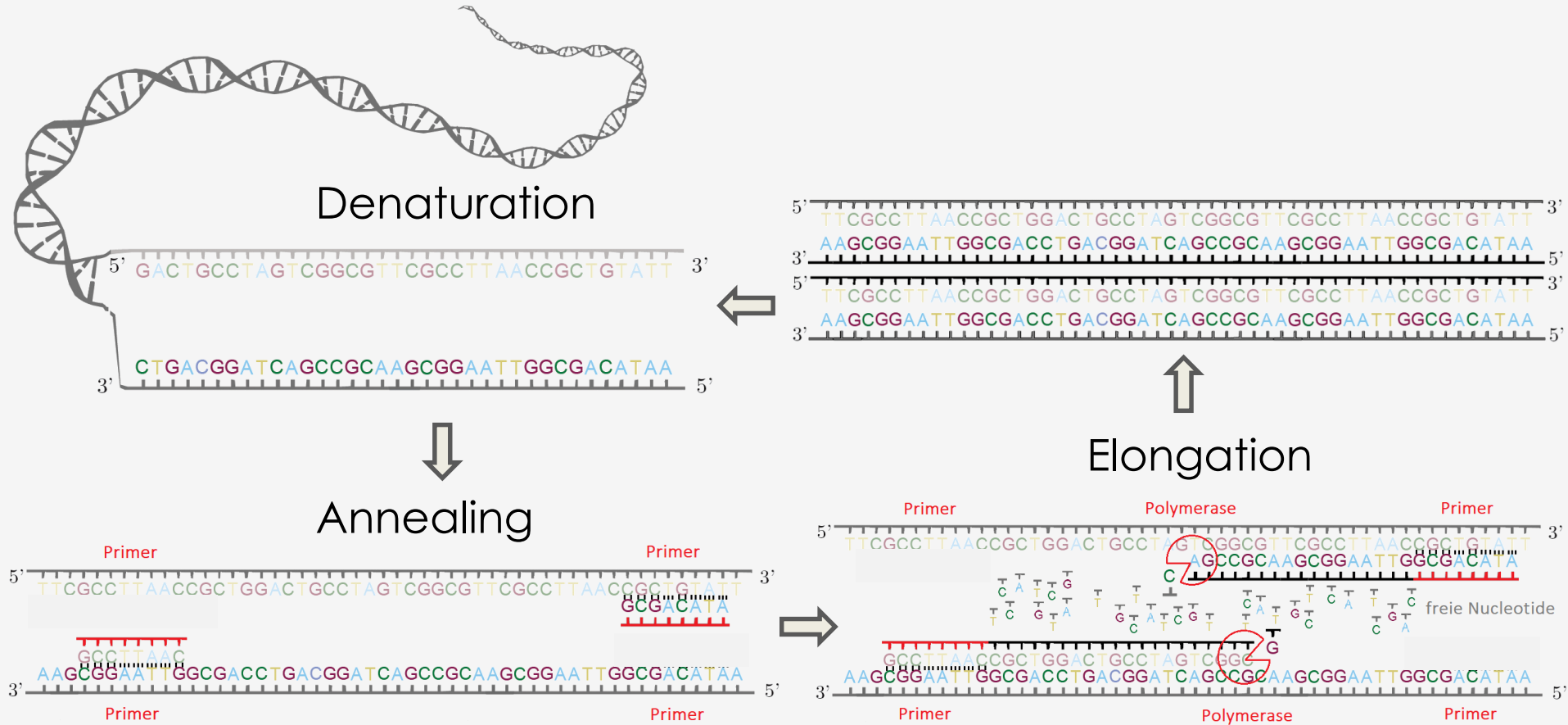
3 DNA quantity and quality

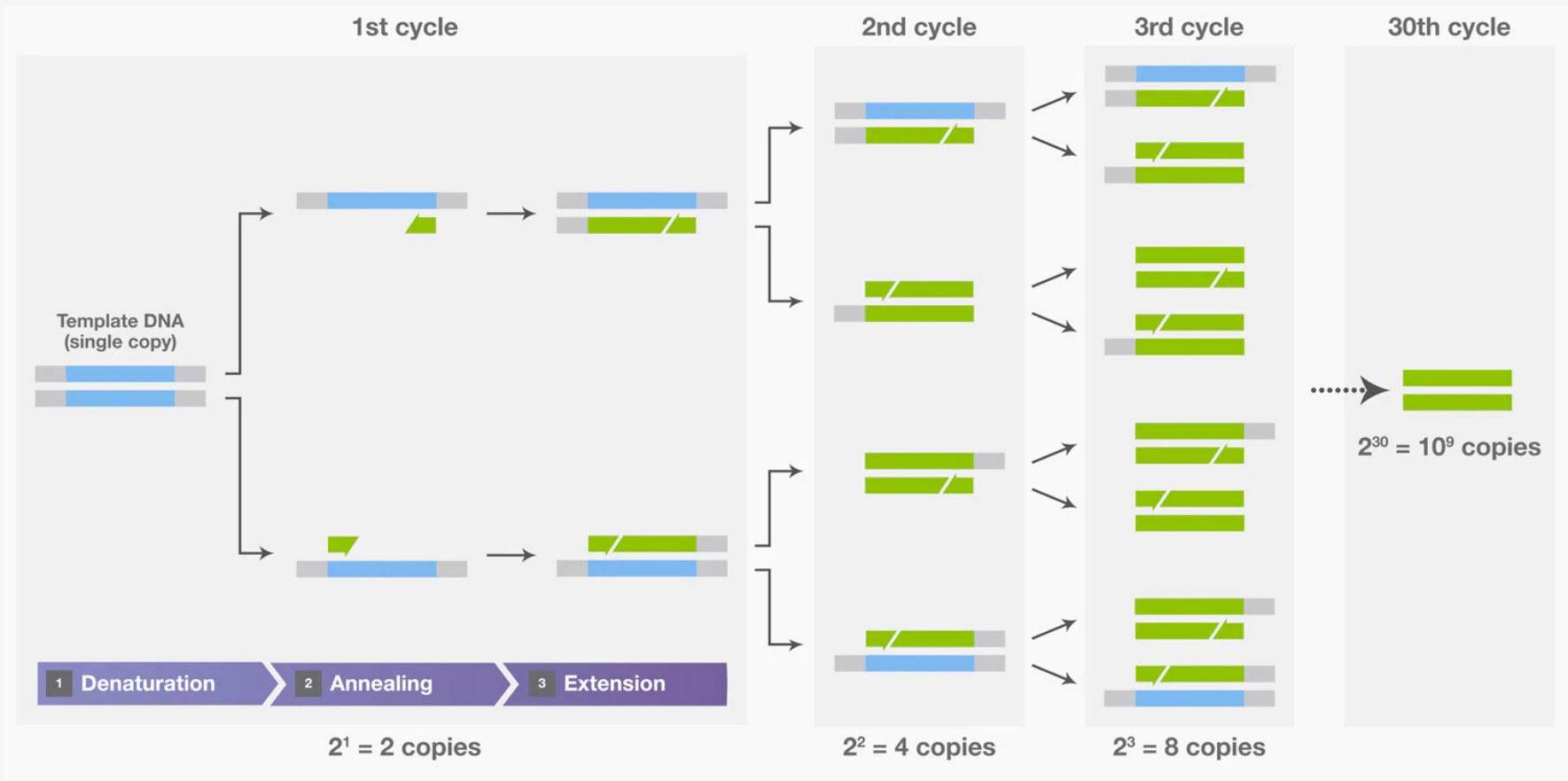


#	Sample ID	User name	Date and Time	Nucleic Acid Conc.	Unit	A260	A280	260/280	260/230	Sample Type	Factor
10	1.1	NanoDrop	04.08.2017 14:33:01	1180,0	ng/µl	23,600	12,483	1,89	1,48	DNA	50,00
11	1.2	NanoDrop	04.08.2017 14:34:28	99,4	ng/µl	1,989	1,107	1,80	1,35	DNA	50,00



4 PCR – Polymerase chain reaction

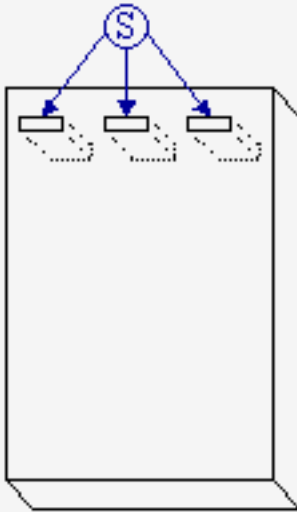




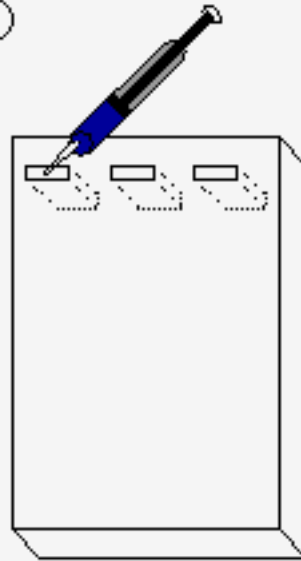
5 Detection → Gel electrophoresis



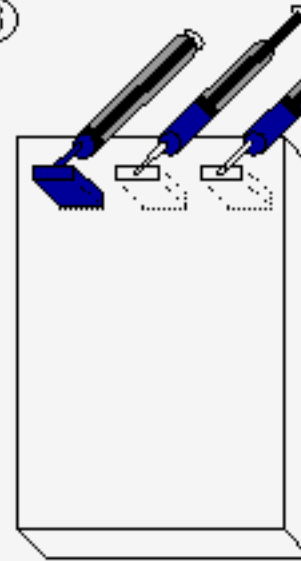
①



②

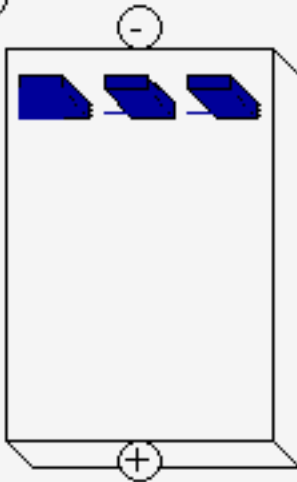


③



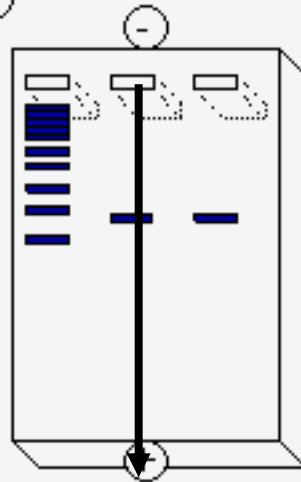
2.5µl PCR product
+ 1µl loading buffer

④

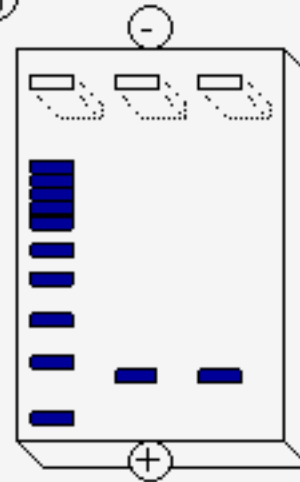


135 V
30min

⑤

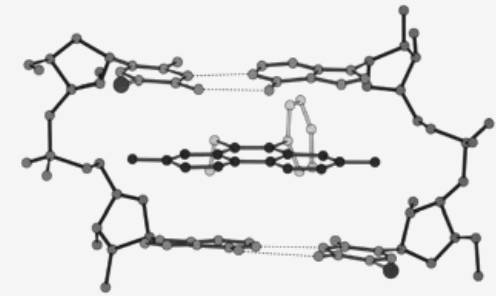
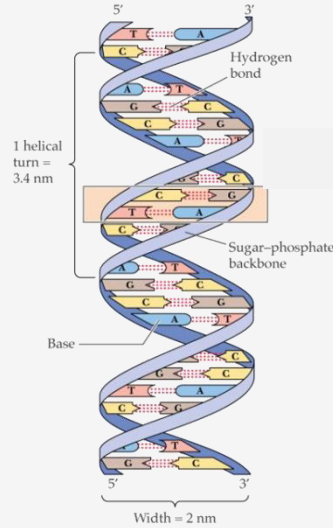
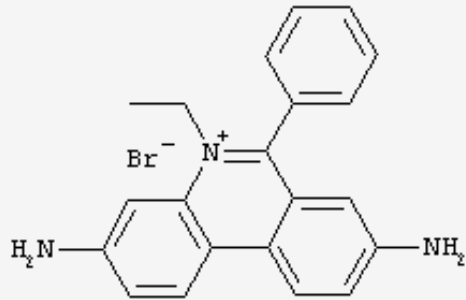


⑥



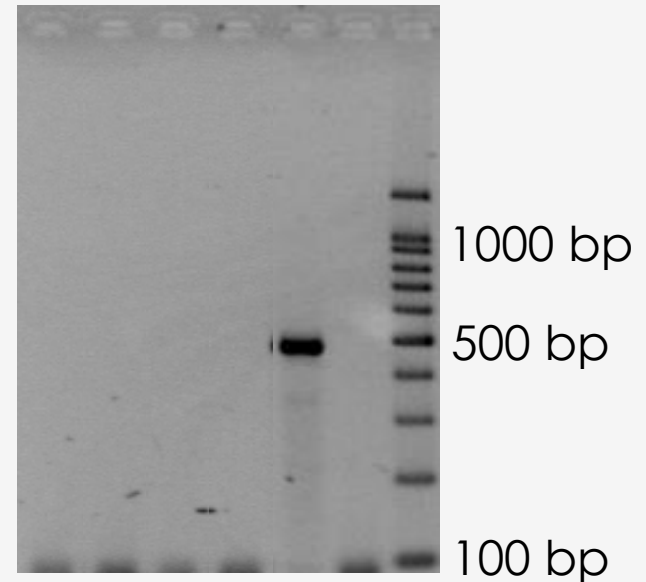
1000 bp
500 bp
100 bp

Staining of PCR products with Ethidiumbromide

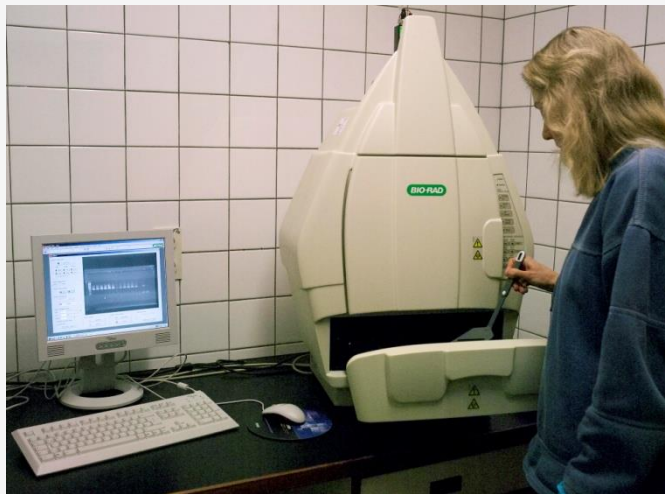


Negative photo

1 2 3 4 5 - M



Documentation



UV-light



Taxon primer specific for:

1 = *Entandrophragma cylindricum*

2 = *Khaya* spp.

3 = *Carapa* spp.

4 = *Swietenia mahagoni*

5 = *Swietenia macrophylla*

