

Gel-electrophoresis

1% Agarose gel

➤ wear Nitril-gloves

- 0,1 g agarose per 10 ml TAE-buffer (1x) (roughly 80 mL)
- prepare shot sleeve → use matching combs (volume of slot!)
- liquefy mix for 2 min at 495 W in microwave, boil twice (beware of boiling retardation, heat until no unsolved agarose-particles are visible anymore)
- add 8 µl EtBr/Gelred depending on gel size and concentration of EtBr/Gelred
→ **caution: EtBr/Gelred evaporates !**
- cast whole gel in chamber (immediate cleaning avoids with water)
- put combs in liquid gel and let the gel cool down
- loading probes (digestion): 25 µL DNA-sample (use big chambers)
- separate at 70 V for 60-70 Min

Gel-electrophoresis

- experiment date: _____ ; time: _____
- name of investigator: _____
- name of DNA-fragment /-backbone: _____
- Marker:

___ g Agarose, ___ TAE (___%), ___ GELRED (3-6µl),

at

Marker	Sample	Lane	Volume in µl	Expected size in kDa

___ Volt, running time: ___ minutes