Running a CHEF Gel (S. cerevisiae full genome spread)

- 1) Acquire gel casting tray and comb.
- 2) Slide gel platform into the casting stand/tray.
- 3) Place comb so it leaves a 2 mm space between the bottom of teeth and the casting tray.
- 4) Place the comb in the far positioning slot.
- 5) Pour 100ml agarose in the gel tray, let gel (1.0% agarose, 0.5X TBE) polymerize 30 minutes.

Alternate/Preferred 4 & 5) Place DNA agarose plugs on the comb teeth, place comb in the positioning slot and poured agarose gel (1.0% agarose, 0.5X TBE) around it. Let gel polymerize 30 minutes.

- 6) Remove comb by rocking so as not to pull the gel off the platform.
- 7) Place DNA agarose plugs in the wells. (If applicable).
- 8) Take polymerized gel and 2 liters 0.5X TBE to CHEF gel apparatus (Briggs 2__).
- 9) Place CHEF gel in the frame. Add 2 liters of buffer to the unit.
- 10) Connect tubing from the cooling unit to the rig, turn on circulation pump and set pump to 70.
- 11) Turn on the cooling unit and set to 14 C.
- 12) Turn on power unit. On block 1 -Set voltage to 5.5 V/cm, set run time to 24 hours, set initial switch time to 60 seconds and second switch time to 120 seconds. Press start, return in 24 hours.

Running a CHEF Gel (*S. cerevisiae* full genome spread) (continued)

SHUT DOWN

- 1) Turn off power supply.
- 2) Turn off cooling unit.
- 3) Attach drain hose and drain buffer (to include tubing) and discard.
- 4) Refill chamber with 1.5L to $2L ddH_2O$ and circulate.
- 5) Drain ddH₂O (to include tubing) and discard. Turn off pump and disconnect tubing from gel rig.