



# OmniPAGE Denaturing Gradient

The VS20WAVE-DGGE is a complete system for DNA mutation analysis. Using the innovative vertical screw-clamp technology of the VS20-WAVE system, the VS20WAVE-DGGE is fully equipped – with temperature control unit, stirrer, gradient mixer and casting accessories – to perform specific mutation analysis applications.

The powerful microprocessor-controlled PID temperature control unit enables various mutation detection techniques to be undertaken between ambient temperature and 70°C, while the simple four-screw design of the WAVE insert accelerates set up of denaturing PAGE gels.

The VS20-DGGE can be used to screen single-base pair changes in the following applications:

- Parallel Denaturing Gradient Gel Electrophoresis (DGGE)
- Constant Denaturing Gradient Gel Electrophoresis (CDGE)

A maximum 96-sample throughput allows detection of as many mutations within a couple hours, alleviating many of the bottlenecks associated with screening for DNA mutations.

The GM100 gradient mixer is supplied as standard to ensure efficient gradient formation by mixing and delivering high- and low-density denaturant solutions. The MU-D01 peristaltic pump is also recommended for delivery of linear and reproducible gradient gels.

## KEY FEATURES

- Maximum 96-sample throughput
- Four-screw vertical clamping technology accelerates set up
- Large format - 20x20cm glass plates for improved resolution
- 100ml gradient mixer, with valve-controlled 50ml reservoir and mixing chambers, makes two 1mm parallel denaturing gradient gels
- Microprocessor-controlled temperature control unit accurate to  $\pm 0.02^\circ\text{C}$



Casting process for DGGE gels