QuickRun™ 10x Fast Running Buffer

Cat. Number: ID1581 (native, w/o SDS)

ID1591 (denaturing, with SDS)

Benefit

- **Fast Speed**: 85% time saving from 90min. to 15 min. (@250V)
- **High Performance**: Sharp and razor crisp protein bands
- **Compatibility**: Most precast gels* in market and hand cast gels that are tris-glycine or laemmli system based

*exclude NuPAGE*Protein Gel. NuPAGE* is registered trade make of Life Technologies

- The QuickRun™ buffer allow **recuperate** expired precast or home-made gels
- **Gradient gel effect**: Using QuickRun buffer with traditional linear gel in electrophoresis will get gradient gel result.
- An 8% linear gel will behave as a 4-12% gradient gel;
- A 10% linear gel will behave as a 8-16% gradient gel;
- A 12% linear gel will behave as a 4-20% gradient gel;
- A 14% linear gel will behave as a 10-20% gradient gel;

Protocol

During the polymerization of your gel, prepare your samples.

QuickRun™ running buffer is a proprietary formulation specifically developed to drastically increase the separation speed without loss of the resolution observed with

hour's long migration. This buffer is compatible with all protein gel chemistries where the pH of the separator gel is ≥ 8.0 and is compatible with all downstream Western blotting applications.

Prepare a 1x running buffer solution by diluting the stock buffer with distilled water

1. Fill your electrophoresis chamber
2. Install your gel(s), if needed flush the wells with running buffer and load your samples
3. We recommend, when you test this buffer for the first time, to load a prestained MW marker in the marker lane to see the migration length and stop it as you need
4. Run under your preferred conditions. Please be careful, the migration is faster than regular buffer

As a guide, we recommend the following conditions*

170 V, for about 25 min

220 V, for about 20 min

This buffer is re-usable, but be careful, if you migrate long and have proteins going out of your gel, they can be carried over the next gels.

Important tips

- Replacing a routine method with a new technology always require an adaptation time, be patient and adapt this system to your specific needs

- For some proteins, this buffer may be more sensitive to overload, creating streaking migration. If you encounter such problem (note this phenomenon is correlated to the protein it may occurs on few proteins):

Load between 2 to 12 µg of protein (for normal Coomassie staining such as BluPower™, cat #IPST10)

  - If you need to load more, using 0.5x QuickRun™ (dilute 1:20) will increase the loading capacity
  - Adding more SDS (we recommend adding 1-2 g per liter of running buffer) will also slightly increase the loading capacity

- High resolution is also related to heat transfer out of the gel. If you find your bands fuzzy:
  - Make sure both buffer chambers are completely filled with running buffer so the gel cassette is completely in contact with liquid
  - After 2/3 migration of your gel, lower the voltage to 80 V for the last 5-10 minutes migration
  - For long gels, stop migration shorter, after migrating in 80% of the gel
  - You can also migrate cold: buffer at 4℃ or use a cooling device or in a fridge. The SDS will not precipitate

Storage

Room Temperature. Up to 5 years from date of manufacture.