

## LavaPurple Total Protein Stain for Gels and Blots

### Preparing your own solutions

**Solution 1 (fixation and acidification):** 15% (v/v) ethanol; 1% (w/v) citric acid in water. The should be approximately pH 2.3.

**Solution 2 (staining buffer):** 100mM sodium borate, pH 10.5, in water. Dissolve 6.2g boric acid in 800 ml water and adjust to pH 10.5 with NaOH, then make to 1 liter.

**Solution 3 (washing)** 15% (v/v) ethanol in water.

All solutions should be free of precipitation and protected from airborne particulate matter as this will result in speckling on the gels.

All reagents should be of analytical grade or higher quality.

### Options

- Ethanol 15% (v/v) in water can be replace by methanol 30% (v/v) in water
- Citric acid 1% (v/v) in water can be replaced by acetic acid 7.5% (v/v) in water. The concentration of acetic acid should not exceed 10%.