Silver Staining

According to: Blum et al. *Electrophoresis* 8, 93-99, 1987.
Another suitable protocol was published by Shevchenko et al. *Anal Chem*. 68, 850-858, 1996.

Use high quality chemicals and prepare all solutions fresh!

All steps should be carried out on a shaker.

Step	**Reagent**	**Duration**
Fixing	40% ethanol / 10% acetic acid in deionized water	≥ 1 h
Wash	30% ethanol in deionized water	2 x 20 min
Wash	deionized water	1 x 20 min
Sensitizer	Sodium thiosulfate 0.02% in deionized water	1 min
Wash	deionized water	3 x 20 sec
Silver	Silver nitrate 0.1% in deionized water	20 min at 4 °C
Wash	deionized water	3 x 20 sec
Development	3% sodium carbonate 0.05% formaldehyde (37%) in deionized water	3-5 min
Wash	deionized water	1 x 20 sec
Stop	5 % acetic acid in deionized water	5 min
Wash	deionized water	3 x 10 min
Store	1 % acetic acid in deionized water	