PRODUCT INFORMATION

SERVA SDS Gel 8-25 % Kit for PhastSystem™ **Cat. no. 43503**

Kit components:

10 ready-to-use SDS PAGE gels
(size: 50 x 42 0,43 mm)

Buffer kit:
- 20 ml SDS Anode Buffer (blue)
- 20 ml SDS Cathode Buffer (white)
- 20 Electrode wicks (size 10 x 40 x 4 mm)

Storage: +2 °C to +8 °C

Sample Preparation:

1. Sample stock buffer:
- Dissolve 3.0 g Tris in 40 ml distilled water
- Adjust pH to 7.5 with approx. 1.4 ml acetic acid
- Make up to 50.0 ml with distilled water
- **Storage: 3 months at +2 °C to +8 °C**

2a. Sample buffer:
- 5.0 ml Sample stock buffer
  + 0.5 g SDS
  + 5 mg Bromophenol Blue
- Make up to 50 ml with distilled water and mix thoroughly
- **Storage:**
  1 month at +2 °C to +8 °C

2b. Sample buffer (reducing):
- 5.0 ml Sample stock buffer
  + 0.5 g SDS
  + 77 mg DTT
  + 5 mg Bromophenol Blue
- Make up to 50 ml with distilled water and mix thoroughly
- **Use fresh solution daily**

Non-reducing SDS treatment
Dissolve the sample in sample buffer (2a) and heat at 95 °C for at least 3 min.

Reducing SDS treatment
Dissolve the sample in sample buffer (2b) and heat at 95 °C for at least 3 min.

Electrophoresis: Always wear powder free disposable gloves.

Vers 03/21

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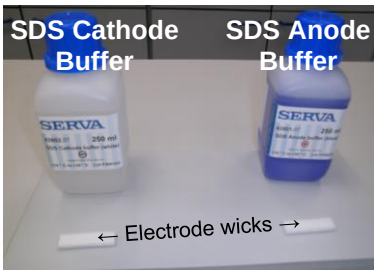
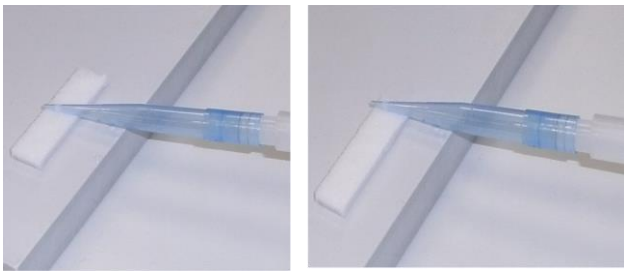
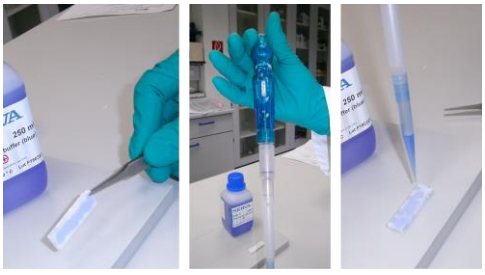
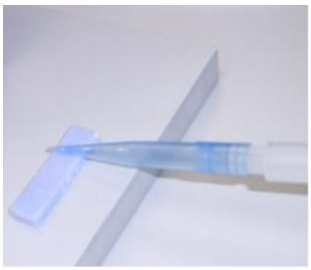
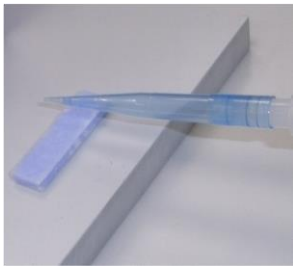
1. Wetting of the electrode wicks with SDS cathode and anode buffer

For each gel 2 electrode wicks are needed Place the electrode wick on an even and clean surface	
Electrode wick for the cathodic side of the gel (Cathode Buffer Wick) Wet the complete upper side carefully with 700 µl of SDS Cathode Buffer (colorless).	
Turn the electrode wick with forceps. Wet the complete upper side carefully with 700 µl of SDS Cathode Buffer (colorless).	
Distribute the buffer evenly in the electrode wick by carefully moving the pipette tip over the wick (see photos). **IMPORTANT**: Do not press too hard to avoid any wick deformation.	
Electrode wick for the cathodic side of the gel (Anode Buffer Wick) Wet the complete upper side carefully with 700 µl of SDS Anode Buffer (blue).	
Turn the electrode wick with forceps. Wet the complete upper side carefully with 700 µl of SDS Anode Buffer (blue).	

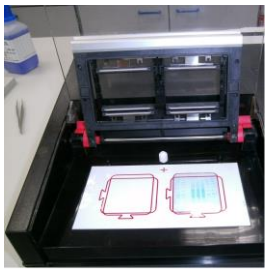
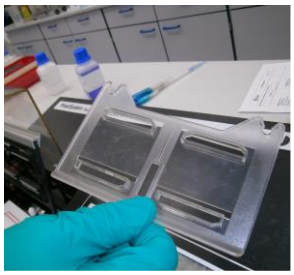
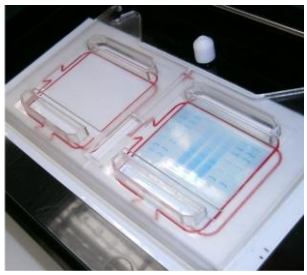
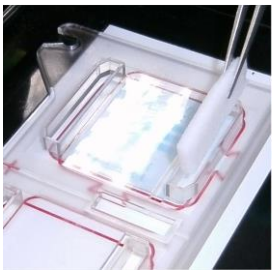
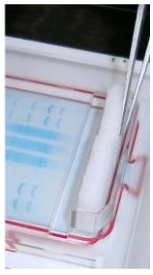
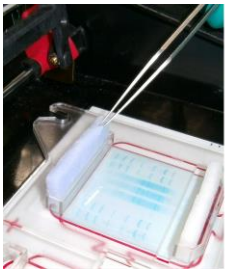
Distribute the buffer evenly in the electrode wick by carefully moving the pipette tip over the wick (see photos). **IMPORTANT**: Do not press too hard to avoid any wick deformation.	 

2. Electrophoresis conditions according to program 1

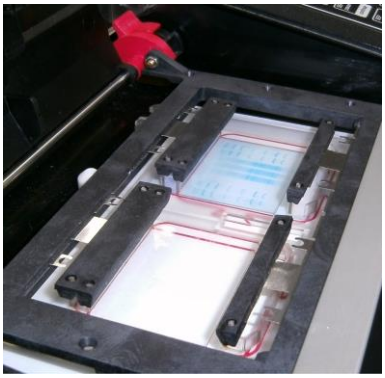
1. Step: Voltage : 150 V – Current : 5 mA – Power : 3 W
Duration : 12 Vh – Temperature : 15 °C

2. Step: Voltage : 280 V – Current : 20 mA – Power : 7 W
Duration : 160 Vh – Temperature : 15 °C

3. Inserting the gel and the electrode wicks into the PhastSystem™

Gel positioning on the gel bed area according to the PhastSystem™ manual. Removing the cover film Here an already run and stained gel is used for better visibility.	 
Positioning of the buffer strip holder.	 
Inserting of the Cathode Buffer Wick (colorless) in the buffer strips holder. Positioning of the Cathode Buffer Wick by aligning at the gel facing edge of the buffer strips holder with forceps.	  
Inserting of the Anode Buffer Wick (blue) in the buffer strips holder. Positioning of the Anode Buffer Wick by aligning at the gel facing edge of the buffer strips holder with forceps.	  

4. Close electrode assembly and start SDS PAGE.

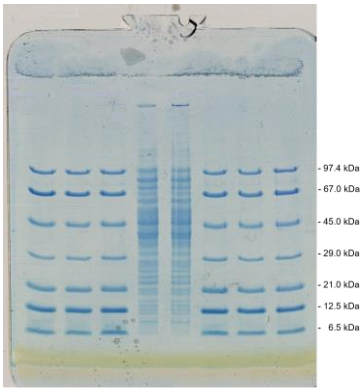


5. Protein staining

Subsequently, protein detection may be performed by Coomassie® or silver staining. Please find below some SERVA products:

Cat. no.	Product	Sensitivity
35081	Quick Coomassie® Stain	≥ 5 ng / band
35076	Silver Staining Kit SDS PAGE	0.1 ng / band

6. Gel after electrophoresis



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