

INTENDED USE

This procedure is intended to be used in conjunction with the appropriate SPIFE procedures provided in the gel kit. The Blade Applicators are designed to allow for easier application on the SPIFE 3000 system.

MATERIALS

Applicator Blade Weights (Cat. No. 3387)

Blade Applicator Kit – 20 Sample

Follow the steps under STEP-BY-STEP METHOD in the kit procedure. Use the following instructions for Sample Application/Sample Preparation and Electrophoresis when using Blade Applicators.

SPIFE SPE (PRO. 128) & SPLIT BETA (PRO. 138)

Sample Preparation (SPIFE 3000)

1. The blades will not have a protective guard; skip the step referring to breaking off the guard and place the blade in the slots instructed. If testing only serum samples, follow the instructions marked "Serum". If testing serum with urine or CSF, follow instructions marked "Serum and CSF or Urine". Serum application is made after the third urine or CSF application. Therefore the blade for serum application is not added until after the third urine/CSF application (step 7).

NOTE: The Applicator Blade will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blade into the slots.

2. Place an Applicator Blade Weight on top of each blade assembly. When placing the weight on the blades, position the weight with the thick side to the right.
3. Pipette 15 µL of control or serum or 20 µL of urine or CSF into **Disposable Sample Cups (Cat. No. 3369 for both)**. Cover until ready to use.

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

* Due to variations in environmental conditions, a "Dry 1" time of 10 or 12 minutes is recommended. However, a range of 10-15 minutes is acceptable.

** An Apply Sample time of 3 or 30 seconds is acceptable.

SPE (Pro. 128):

• Serum

- 1) No Prompt
Load Sample 1 00:01 21°C SPD1
- 2) No Prompt
Apply Sample 1 **00:30 21°C SPD1 LOC1
- 3) No Prompt
Electrophoresis 1 6:00 21°C 650V 135mA
- 4) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 5) No Prompt
END OF TEST

• Serum and CSF or Urine

- 1) No Prompt
Load Sample 1 00:30 21°C SPD1
- 2) No Prompt
Apply Sample 1 00:30 21°C SPD1 LOC1
- 3) No Prompt
Load Sample 2 00:30 21°C SPD1
- 4) No Prompt
Apply Sample 2 00:30 21°C SPD1 LOC1
- 5) No Prompt
Load Sample 3 00:30 21°C SPD1
- 6) No Prompt
Apply Sample 3 00:30 21°C SPD1 LOC1
- 7) To Continue, (continue)
Load Sample 4 00:01 21°C SPD1
- 8) No Prompt
Apply Sample 4 **00:30 21°C SPD1 LOC1
- 9) No Prompt
Electrophoresis 1 6:00 21°C 650V 135mA
- 10) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 11) No Prompt
END OF TEST

Split Beta (Pro. 138)

NOTE: Option 2 is not used with these blades.

• Serum

- 1) No Prompt
Load Sample 1 00:01 21°C SPD1
- 2) No Prompt
Apply Sample 1 **00:30 21°C SPD1 LOC1
- 3) No Prompt
Electrophoresis 1 6:00 21°C 650V 130mA
- 4) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 5) No Prompt
END OF TEST

• Serum and CSF or Urine

- 1) No Prompt
Load Sample 1 00:30 21°C SPD1
- 2) No Prompt
Apply Sample 1 00:30 21°C SPD1 LOC1
- 3) No Prompt
Load Sample 2 00:30 21°C SPD1
- 4) No Prompt
Apply Sample 2 00:30 21°C SPD1 LOC1
- 5) No Prompt
Load Sample 3 00:30 21°C SPD1
- 6) No Prompt
Apply Sample 3 00:30 21°C SPD1 LOC1

- 7) To Continue, (continue)
Load Sample 4 00:01 21°C SPD1
- 8) No Prompt
Apply Sample 4 **00:30 21°C SPD1 LOC1
- 9) No Prompt
Electrophoresis 1 6:00 21°C 650V 130mA
- 10) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 11) No Prompt
END OF TEST

- 5) No Prompt
Apply Sample 1 00:30 20°C SPD6 LOC1
- 6) No Prompt
Electrophoresis 1 6:00 10°C 600 Volt 100 mA
- 7) No Prompt
Apply Reagent 1 45°C 4 cycles
- 8) To Continue, (Continue)
Incubate 1 20:00 45°C
- 9) No Prompt
END OF TEST

SPIFE ACID HEMOGLOBIN (PRO. 176) AND ALKALINE HEMOGLOBIN (PRO. 170)

NOTE: The following steps are the only changes needed for these blades. Continue following the appropriate procedure provided in the gel kit.

Sample Preparation (SPIFE 3000)

- 1. The blade will not have a protective guard; skip the step referring to breaking off the guard and place the blade in the slots instructed.
NOTE: The Applicator Blade will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blade into the slots.
- 2. Place an Applicator Blade Weight on top of the blade assembly. When placing the weight on the blade, position the weight with the thick side to the right.

SPIFE LD ISOENZYME (PRO. 89)

Use the following instructions for "II. Sample Preparation" when using these blades.

Sample Preparation

- 1. Following Step 1, skip the step referring to breaking off the guard and place the blade in the slots instructed in Step 2.
NOTE: The Applicator Blades will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blades into the slots.
- 2. After Step 2, place an Applicator Blade Weight on top of each Applicator Blade. When placing the weight on the blades, position the weight with the thick side to the right. Continue following the instructions under Sample Preparation in the original procedure.

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

- 1) No Prompt
Load Sample 1 00:02 20°C SPD6
- 2) No Prompt
Load Sample 2 00:02 20°C SPD6
- 3) No Prompt
Load Sample 3 00:02 20°C SPD6
- 4) No Prompt
Load Sample 4 00:30 20°C SPD6

SPIFE LIPOPROTEIN (PRO. 108)

Use the following instructions for "I. Sample Preparation" when using these blades.

Sample Preparation

- 1. Following Step 1, skip the step referring to breaking off the guard and place the blade in the slots instructed in Step 2.
NOTE: The Applicator Blades will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blades into the slots.
- 2. After Step 2, place an Applicator Blade Weight on top of each Applicator Blade. When placing the weight on the blades, position the weight with the thick side to the right. Continue following the instructions under Sample Preparation in the original procedure.

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

- 1) No Prompt
Load Sample 1 00:02 20°C SPD6
- 2) No Prompt
Load Sample 2 00:02 20°C SPD6
- 3) No Prompt
Load Sample 3 00:02 20°C SPD6
- 4) No Prompt
Load Sample 4 00:30 20°C SPD6
- 5) No Prompt
Apply Sample 1 1:00 20°C SPD6 LOC1
- 6) No Prompt
Electrophoresis 1 20:00 16°C 400 Volt 150 mA
- 7) Remove gel blocks (continue)
Dry 1 8:00 54°C
- 8) No prompt
END OF TEST

SPIFE CK VIS ISOENZYME (PRO. 99)

Use the following instructions for "I. Sample Preparation" when using these blades.

Sample Preparation

- 1. Following Step 1, skip the step referring to breaking off the guard and place the blade in the slots instructed in Step 3.
NOTE: The Applicator Blades will only fit into the slots

in the Applicator Assembly one way; do not try to force the Applicator Blades into the slots.

2. At Step 4, when placing the weight on the blades, position the weight with the thick side to the right.
3. At Step 6, pipette 75-80 µL of pretreated control or serum into Disposable Sample Cups (Cat. No. 3360).

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

- 1) No Prompt
Load Sample 1 00:02 21°C SPD6
- 2) No Prompt
Load Sample 2 00:02 21°C SPD6
- 3) No Prompt
Load Sample 3 00:02 21°C SPD6
- 4) No Prompt
Load Sample 4 00:30 21°C SPD6
- 5) No Prompt
Apply Sample 1 1:00 21°C SPD6 LOC1
- 6) No Prompt
Load Sample 5 00:30 21°C SPD6
- 7) No Prompt
Apply Sample 2 1:00 21°C SPD6 LOC1
- 8) No Prompt
Electrophoresis 1 4:30 13°C 750 Volt 65mA
- 9) Remove gel blocks (Continue)
Apply Reagent 1 37°C 8 cycles
- 10) No Prompt
Incubate 1 20:00 45°C
- 11) No Prompt
END OF TEST

SPIFE VIS CHOLESTEROL (PRO. 185)

Use the following instructions for "II. Sample Preparation" when using these blades.

Sample Preparation

1. Following Step 1, skip the step referring to breaking off the guard and place the blade in the slots instructed in Step 2.
NOTE: The Applicator Blades will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blades into the slots.
2. After Step 2, place an Applicator Blade Weight on top of each Applicator Blade. When placing the weight on the blades, position the weight with the thick side to the right. Continue following the instructions under Sample Preparation in the original procedure.

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

- 1) No Prompt
Load Sample1 00:02 20°C SPD6

- 2) No Prompt
Load Sample 2 00:02 20°C SPD6
- 3) No Prompt
Load Sample 3 00:02 20°C SPD6
- 4) No Prompt
Load Sample 4 00:30 20°C SPD6
- 5) No Prompt
Apply Sample 1 1:00 20°C SPD6 LOC1
- 6) No Prompt
Electrophoresis 1 20:00 16°C 400 V 150mA
- 7) Remove blotter, (continue)
Apply Reagent 1 30°C 8 cycles
- 8) No Prompt
Incubate 1 15:00 30°C
- 9) No prompt
END OF TEST

SPIFE ALKALINE PHOSPHATASE (ALP) ISOENZYME (PRO. 202)

Use the following instructions for "III. Sample Preparation" when using these blades.

Sample Preparation

1. Following Step 1, skip the step referring to breaking off the guard and place the blade in the slots instructed in Step 2.
NOTE: The Applicator Blades will only fit into the slots in the Applicator Assembly one way; do not try to force the Applicator Blades into the slots.
2. After Step 2, place an Applicator Blade Weight on top of each Applicator Blade. When placing the weight on the blades, position the weight with the thick side to the right. Continue following the instructions under Sample Preparation in the original procedure.

Use the following instructions for Electrophoresis Parameters when using these blades.

Electrophoresis (SPIFE 3000)

**** Due to variation in environmental conditions, an Electrophoresis time of 27:00 minutes is recommended, but a range of 26:00 to 28:00 minutes is acceptable.**

- 1) No Prompt
Load Sample 1 00:02 20°C SPD6
- 2) No Prompt
Load Sample 2 00:02 20°C SPD6
- 3) No Prompt
Load Sample 3 00:02 20°C SPD6
- 4) No Prompt
Load Sample 4 00:30 20°C SPD6
- 5) No Prompt
Apply Sample 1 1:00 20°C SPD6 LOC1
- 6) No Prompt
Load Sample 5 00:30 20°C SPD6
- 7) No Prompt
Apply Sample 2 1:00 20°C SPD6 LOC1

- 8) No Prompt
Load Sample 6 00:30 20°C SPD6
- 9) No Prompt
Apply Sample 3 1:00 20°C SPD6 LOC1
- 10) To Continue, (Continue)
Electrophoresis 1 **27:00 12°C 430 Volt 75mA
- 11) Remove gel blocks (continue)
Apply Reagent 1 45°C 10 cycles
- 12) No Prompt
Incubate 1 28:00 45°C
- 13) No Prompt
END OF TEST

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Beaumont, Texas USA 77704