

QuickGel Blade Applicator Kit – 18 & 20 Sample Procedure

Cat. No. 3351, 3405, 3350, 3419, 3429, 3338, 3344, 3334, 3443

INTENDED USE

This procedure is intended to be used in conjunction with the appropriate QuickGel 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 – 18 Sample

Blade Applicator Kit – 20 Sample

Follow the steps under **STEP-BY-STEP METHOD** in the kit procedures. Use the following instructions for Sample Application/Sample Preparation and Electrophoresis when using these blades.

QUICKGEL IMMUNOFIX (PRO. 123)

Sample Application

- **Blade Application for Serum and Urine**

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.

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. 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 20 µL of diluted serum or 20 µL of urine into the shallow wells of the Cup Strip. Samples should be placed in the wells aligned with “SP, G, A, M, K, L”.

Electrophoresis (SPIFE 3000)

- **Urine or Urine and Serum**

NOTE: Serum and urine samples may be run on the same gel on different rows by pipetting 20 µL of urine and 20 µL of diluted serum into the cups. Change Step “5) No prompt” to “5) To Continue, (continue)”.

Place a blade into the slot that corresponds with the urine sample. After the second urine application, the machine will beep and stop. Add a blade into the remaining slot for serum samples. Press **TEST SELECT/CONTINUE**, the machine will apply and continue.

QUICKGEL SPE (PRO. 140) & SPLIT BETA (PRO. 139)

Sample Blade Application Method

1. The blades will not have a protective guard; skip the step referring to breaking off the guard. Place the blade into the vertical slots numbered 6 in the Applicator Assembly. If using two Applicator Blades, place them into the vertical slots numbered 6 and 12. When testing serum with urine or CSF samples, 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. Place the Application Blade in the slots for serum application and remove the Urine/CSF Blades.

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. 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) 1 to 5 and 6 to 10. If testing more than 10 samples, pipette sample into cups 11 to 15 and 16 to 20. Cover the tray until ready to use.

Use the following Electrophoresis Parameters, either **Option 1** or **Option 2**, for these blades.

Electrophoresis with Blade Application (SPIFE 3000)

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

SPE (PRO. 140):

- **Serum Option 1**

Electrophoresis Unit

- | | | | | | |
|----------------------------------|---------|------|------|------|--|
| 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 | 6:30 | 21°C | 375V | 80mA | |
| 4) Remove gel blocks, (continue) | | | | | |
| Dry 1 | *10:00 | 54°C | | | |
| 5) No Prompt | | | | | |
| END OF TEST | | | | | |

- **Serum Option 2**

- | | | | | | |
|----------------------------------|--------|------|------|------|--|
| 1) No Prompt | | | | | |
| Load Sample 1 | 00:02 | 21°C | SPD1 | | |
| 2) No Prompt | | | | | |
| Load Sample 2 | 00:02 | 21°C | SPD1 | | |
| 3) No Prompt | | | | | |
| Load Sample 3 | 00:02 | 21°C | SPD1 | | |
| 4) No Prompt | | | | | |
| Load Sample 4 | 00:30 | 21°C | SPD1 | | |
| 5) No Prompt | | | | | |
| Apply Sample 1 | 00:30 | 21°C | SPD1 | LOC1 | |
| 6) No Prompt | | | | | |
| Electrophoresis 1 | 6:30 | 21°C | 375V | 80mA | |
| 7) Remove gel blocks, (continue) | | | | | |
| Dry 1 | *10:00 | 54°C | | | |
| END OF TEST | | | | | |

- **Serum and Urine/CSF**

- | | | | | | |
|---------------|-------|------|------|--|--|
| 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 6:30 21°C 375V 80mA
- 10) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 11) No Prompt
END OF TEST

Split Beta (PRO. 139):

Electrophoresis Unit

• **Serum Option 1**

- 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 8:00 21°C 350V 60mA
- 4) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 5) No Prompt
END OF TEST

• **Serum Option 2**

- 1) No Prompt
Load Sample 1 00:02 21°C SPD1
- 2) No Prompt
Load Sample 2 00:02 21°C SPD1
- 3) No Prompt
Load Sample 3 00:02 21°C SPD1
- 4) No Prompt
Load Sample 4 00:30 21°C SPD1
- 5) No Prompt
Apply Sample 1 00:30 21°C SPD1 LOC1
- 6) No Prompt
Electrophoresis 1 8:00 21°C 350V 60mA
- 7) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
END

• **Serum and Urine/CSF**

- 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 8:00 21°C 350V 60mA
- 10) Remove gel blocks, (continue)
Dry 1 *10:00 54°C
- 11) No Prompt
END OF TEST

QUICKGEL ACID HEMOGLOBIN (PRO. 191) AND ALKALINE HEMOGLOBIN (PRO. 171)

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

Sample Preparation

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 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. 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.

QUICKGEL LD ISOENZYME (PRO. 77)

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

Sample Preparation

1. The blades will not have a protective guard; skip the step referring to breaking off the guard and place the blades 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 Unit

- 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 00:10 20°C SPD6
- 5) No Prompt
Apply Sample 1 01:00 20°C SPD6 LOC1
- 6) No Prompt
Electrophoresis 1 4:00 12°C 550 Volt 70 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

QUICKGEL LIPOPROTEIN (PRO. 179)

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

Sample Preparation

1. The blades will not have a protective guard; skip the step referring to breaking off the guard and place the blade in the slot instructed in Step 2.

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. After Step 2, place an Applicator Blade Weight on top of the Applicator Blade. When placing the weight on the blade, 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 Unit

- 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 25:00 16°C 220 Volt 60 mA
- 7) Remove gel blocks (continue)
Dry 1 8:00 54°C
- 8) No prompt
END OF TEST

QUICKGEL CK VIS ISOENZYME (PRO. 134)

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

Sample Preparation

1. The blades will not have a protective guard; skip the step referring to breaking off the guard and place the blades 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 Unit

- 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 10:00 13°C 225 Volt 30mA
- 9) Remove gel blocks (Continue)
Apply Reagent 1 37°C 8 cycles
- 10) No Prompt
Incubate 1 18:00 45°C
- 11) No Prompt
END OF TEST

QUICKGEL VIS CHOLESTEROL (PRO. 49)

Use the following instructions for “IV. Sample Preparation” when using these blades.

Sample Preparation

1. The blades will not have a protective guard; skip the step referring to breaking off the guard and place the blade in the slot instructed in Step 2.

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. After Step 2, place an Applicator Blade Weight on top of the Applicator Blade. When placing the weight on the blade, 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 Unit

- 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 25:00 16°C 220 V 60mA
- 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

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