



# DyonCardiac 3 in 1<sup>®</sup> (Cardiac Troponin, Myoglobin, CK-MB )

Qualitative determination of Troponin I / CK-MB / myoglobin in human serum, plasma or whole blood

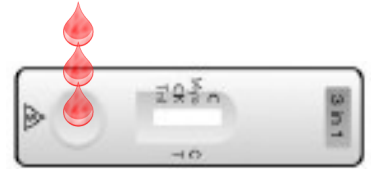
## INSTRUCTIONS OF PROCEDURE

### TEST PROCEDURE

Bring the test devices and specimens to room temperature before remove the casing and before use them.

1. Remove the test device from the sealed pouch and place it on a clean, flat surface.
2. Hold the dispenser vertically and transfer **3 drops of normal sample (about 120µl)** in the specimen well (S) of the device.

120µL



3. Wait for the red or purple line in the area of effect.

4. Interpret the result in 15-20 minutes. Do not read result after 30 minutes. (In the case of whole blood, you can have good background and effect when interpreting the results around 20 - 25min).

Caution: Perform the test immediately after removing the device from the case.



### INTERPRETATION OF RESULTS

**NEGATIVE:** The presence of the control zone means negative.



**POSITIVE:** The presence of two color bands, regardless of what occurs first means positive result.



Myo	CK-MB	TnI	result	explanation
-	-	-	negative	Probability of acute myocardial infarction. If you suspect heart failure, repeat in 24 hours
+	-	-	positive	Early cardiac muscle damage. Recommended repetition of cTnI at 4 and 8 hours to check the case acute cardiovascular events
+	+	-	positive	Early muscle or cardiac damage. Recommended repetition of cTnI at 4 and 8 hours to check the case acute cardiovascular events
-	+	-	positive	Early muscle or cardiac damage. Recommended repetition of cTnI at 4 and 8 hours to check the case acute cardiovascular events
+	+	+	positive	Myocardial necrosis within 12 hours of the onset of symptoms
-	+	+	positive	Acute myocardial infarction fraud 12 hours of symptom onset
-	-	+	positive	Acute myocardial infarction after 24-96 hours
+	-	+	positive	Possible myocardial necrosis

**INVALID:** If after the examination does not show the test zone (C), the result is considered invalid. The instructions may not have been followed correctly or the test device is not in good condition, then the sample should be reviewed with a new test.



### STORAGE AND SHELF LIFE

**DyonTroponinPOC<sup>®</sup>** should be stored at 2 ~ 30 ° C. The test device is sensitive to moisture and heat. Do not use beyond the expiration date or 18 months from production date



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### INSTRUCTIONS OF SAMPLE COLLECTION

#### PRINCIPLE OF THE METHOD

**DyonCardiac 3 in 1<sup>®</sup>** is based on the principle of immunochromatography for in vitro qualitative determination Troponin I / CK-MB / Myoglobin. After adding the sample to a specific region, it moves and interacts with anti - troponin I / anti -CK-MB / anti- myoglobin antibody colloidal gold those are in the film. The mixture moved along the membrane by capillary action and interacts with anti -troponin I / anti-CK-MB / anti- myoglobin which is immobilized in the test region. In the case where troponin I, CK-MB and myoglobin at levels greater than or equal to 1.0 ng/ml, 5.0 ng / ml and 70 ng / ml respectively, a colored line appears in the test region. In the absence of cardiac Troponin I / CK-MB / myoglobin or insufficient amount of sample, the area remains colorless. The sample continues to move to the control area (control) showing red or purple color, indicating that the test is working properly and that the result is valid.

#### SAMPLING AND SAMPLE PREPARATION

**1. Collection of whole blood samples.** 1) The collection of whole blood is a syringe into airtight (evacuated) tubes with heparin as an anticoagulant. 2) Whole blood samples must be tested immediately after collection. In case stored at 2 ~ 8°C, should be examined within 24 hours.



**2. Collection of serum / plasma.** 1) Samples of serum or heparinized plasma should be tested immediately after collection. 2) Do not leave specimens at room temperature for a long time. Samples should be stored 2 ~ 8°C and examined micro like in 3 days. If you want stocking for a longer period, samples should be stored at -20°C.



\* Serum or plasma samples containing sediment can cause unrelated results and must be purified before analysis.