

# The World's First Alpha Thalassemia Immunochromatographic Strip Test

## IC Strip Test for Alpha Thalassemia Detection

EASY, QUICK & COST-EFFECTIVE  
HIGH SENSITIVITY & SPECIFICITY  
NO EQUIPMENT NECESSARY

**i+LAB**

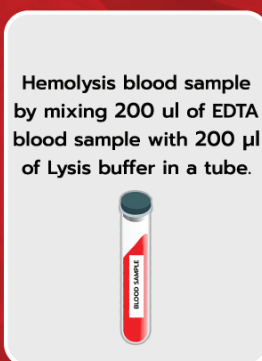
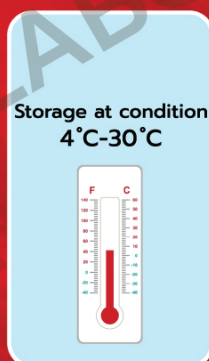


## PERFORMANCE CHARACTERISTIC\*

Types of Thalassemia and hemoglobinopathies	Results	Accuracy
1. $\alpha$ -thalassemia 1, Hb H and CSEA Bart's	Positive	>99.90%
2. Homozygous $\alpha$ -thalassemia 2	Positive	>99.90%
3. Heterozygous $\alpha$ -thalassemia 2	Positive	82.93%
4. Hb E Homozygote+Heterozygote	Negative	>99.90%
5. Beta thalassemia (all types)	Negative	74.42%
6. Normal	Negative	97.42%

Sensitivity: 96.41%\* / Specificity: 95.47%

**Note:** \*Sensitivity was calculated from the population of expected positive result of  $\alpha$ -thalassemia 1 and  $\alpha$ -thalassemia 2. In some cases, heterozygous  $\alpha$ -thalassemia 2 has few amount of Hb Bart's that cannot be detected by this test. Tested performed by Prof. Suthat Fucharoen MD., Thalassemia Research Center, Institute of Science and Technology for Research and Development, Mahidol University, Salaya Campus, THAILAND



## RESULTS

POSITIVE RESULT	NEGATIVE RESULT
Alpha thal 1 trait	Hb E trait
Alpha thal 2 Homozygous	Hb E Homozygote +
Hb H	Heterozygote
Hb H-CS	Beta thal trait
AE Bart's	normal persons

EU regulatory status: Not CE-marked; IVDR conformity assessment in progress

