# H8 THALASSAEMIA ANALYSIS MODE

## Specifications

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|---|---|
| Methodology | High Performance Liquid Chromatography(HPLC) |
| Test Item | HbF, HbA1c, HbA2, Hb Variants(HbE, HbD, HbS, HbC, Hb Ottawa, Hb G-Taipei, Hb Tamano, Hb Maputo,Hb G-Honolulu, Hb G-Coushatta, Hb Q-Thailand, Hb New York, HbJ-Bangkok, Hb J-Wenchang-Wuming, Hb J-Baltimore, Hb H.) |
| Precision | HbA1c (CV≤1.5%), HbA2 (CV≤4.0%) |
| Test Speed | 6.0 Mins/sample |
| Sample Type | Whole Blood / Diluted Blood |
| Sample Volume | Whole blood: 5μL; Diluted Blood: 750μL (Dilution Ratio15:1500μL) |
| Auto Sample Loader | 10 Positions |
| Piercing Function | Yes |
| Sample Pretreatment | Automatic |
| Photometer | 415nm+500nm |
| Reagent Pack | Eluent A, Eluent B, Eluent C, Hemolysin L, Calibrator, QC Material |
| Display | 10.1 " TFT True Color LCD Touch Screen |
| Storage | 4000 Sample Results |
| Lis Connection | USB, LAN |
| Operation Condition | Temperature 10 ~ 30 °C ( 50 ~ 86 °F ); Humidity ⩽ 80% |
| Power | AC 100-240V 50/60HZ 150VA |
| Dimensions | 600mm x 360mm x 540mm ( 23.6"H x14.2 "W x 21.3" D ) |
| Weight | 49KG ( 108 lbs ) |

NGSP ifcc International Federation of Clinical Chemistry and Laboratory Medicine CE ISO 13485 SGS NMPA


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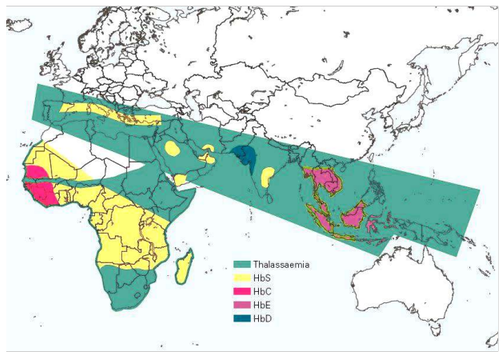
A Perfect solution for Thalassaemia Screening


## What is Thalassaemia?

Thalassaemia is a blood disorder passed down through families (inherited) in which the body makes an abnormal form or inadequate amount of hemoglobin. Hemoglobin is the protein in red blood cells that carries oxygen. The disorder results in large numbers of red blood cells being destroyed, which leads to anemia.

β-thalassaemia trait may develop either thalassaemia major or thalassaemia intermedia. Individuals with thalassaemia major are usually diagnosed within the first 2 years of life and require regular blood transfusions to survive.

Thalassaemia affects approximately 4.4 of every 10,000 live births throughout the world. It causes males and females to inherit the relevant gene mutations equally because it follows an autosomal pattern of inheritance with no preference for gender.




Thalassaemia Distribution in the world

## What is the meaning of thalassaemia screening?

Thalassaemia is a blood condition that can cause health problems for your baby. It's passed from parents to children through changes in genes. You and your partner can have carrier screening before or during pregnancy to find out if you have the gene change that causes thalassaemia.

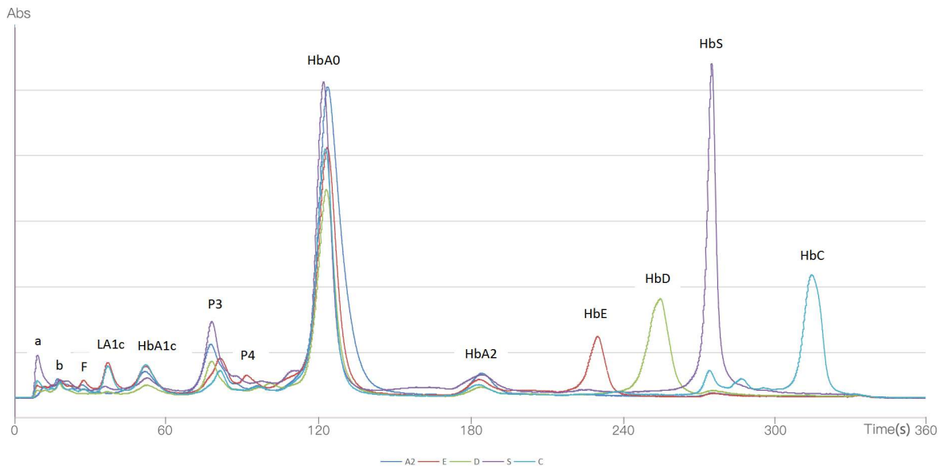
## H8 Features

- High Performance Liquid Chromatography(HPLC)
- Report HbF、HbA1c、HbA2 and Hb Variants(HbE, HbD, HbS, HbC)
- Quantitative measure HbA2 and HbF in 6.0 mins
- High resolution chromatography and high reliable system
- Easy to operate and maintenance
- No interference from common hemoglobin variants


## About HPLC

High-Performance Liquid Chromatography (HPLC) is the gold standard for hemoglobin testing as it separates mixtures directly and measures the absorbance points continually with superior resolving power. Lifotronic H8, a HPLC thalassaemia analyzer able to report HbF, HbA1c, HbA2 while eliminate interference of such Hb variants as HbE, HbD, HbS and HbC, creates significant and unique values for patients, physicians and laboratories.

## H8 Thalassemia Mode Chromatogram




H8 Thalassemia Graph