Thalassemia testing. Simplified.

Dvysr IVDR Certified

Comprehensive NGS testing for thalassemia and sickle cell disease. Now with β-modifier detection, robust CNV analysis, and a streamlined workflow.

Devyser Thalassemia v2 is a first-of-its-kind CE-marked (IVDR) NGS solution for comprehensive genetic testing in sickle cell disease and alpha- and beta-thalassemia. It identifies SNVs, indels, CNVs, challenging α-globin deletions, and clinically relevant β-globin modifiers, enabling fast, robust, and clinically meaningful results for diagnostic laboratories.

Broad coverage and comprehensive detection

- Broad coverage of HBA1/2, HBB, HBD, and HBG1/2, including SNVs, indels, CNVs, and complex deletions
- Direct detection of α3.7 and α4.2 deletions helps reduce reruns and improve result reliability

Efficient NGS workflow, built for reliable results

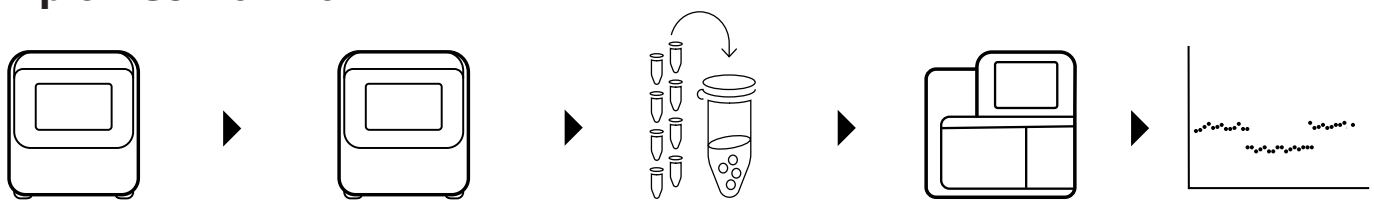
- Minimal hands-on time with a simple two-tube workflow and same-day library preparation

Dedicated analysis pipeline

- Integrated analysis pipeline for Devyser Thalassemia v2, enabling intuitive review and rapid reporting
- Ease-of-use removes in-house bioinformatics need

> *With their second version of the assay, Devyser has made testing for thalassemia even more robust and easy.*
>
> *Dr. C.L. (Kees) Harteveld*
> *Dpt of Clinical Genetics/Genome Diagnostics,*
> *Hemoglobinopathy Expert Center of the Leiden University Medical Center, Leiden, The Netherlands*

Simple NGS workflow



LR-PCR
Low amount of genomic DNA required

PCR amplification x2
Multiplex target amplification and sample indexing in PCR1 and PCR2

Pooling and cleanup
Sample pooling prior to bead based purification in bulk

NGS
Amplicon sequencing

Data analysis
Tailored software solution for variant analysis

Dvysr®

Devyser – a new level of certainty

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Dedicated analysis pipeline, straightforward to use

A dedicated analysis pipeline enables intuitive variant review and rapid, two-click report generation, minimizing the need for in-house bioinformatics expertise. The pipeline supports easy visualization of SNVs, CNVs, and modifier variants, and helps reduce manual data handling.

CNV overview: copy number profile across globin gene clusters with thresholds and confidence indicators. Calls summarized per sample for quick review.

Variant summary: consolidated view of SNVs, indels, CNVs, and modifier variants to support efficient interpretation and reporting.

Performance at a glance*

>97.6%	>99.9%	>99.9%
PPA	NPA	OPA
Positive percent agreement	Negative percent agreement	Overall percent agreement

*Clinical performance evaluated on 433 samples (426 residual clinical gDNA from individuals tested for suspected thalassemia or sickle cell disease + 7 cell-line gDNA samples) at two external ISO 15189-accredited European laboratories.

Sickle cell disease

Now validated for genetic testing in sickle cell disease, in addition to alpha- and beta thalassemia.

Contact us to get up and running faster: **Devyser Thalassemia v2 is available with leasing options for compatible Illumina sequencers.**

Disclaimer: Devyser products are distributed worldwide. Not all intended uses and applications mentioned here are available in every country. Please consult your local sales representative for details.

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Article numbers

Devyser Thalassemia v2 (CE-IVDR)

- 24 tests (8-R117-24)
- 48 tests (8-R117-48)

Amplicon Suite for Devyser Thalassemia v2

- 24 tests (8-C307-24)
- 48 tests (8-C307-48)

Check regulatory status in your country

Accessories

- Devyser Index Plate A (8-R200)
- Devyser Index Plate LB-A (8-R202)
- Devyser Index Plate LB-192 (8-R207)
- Devyser Library Clean (8-R204)

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