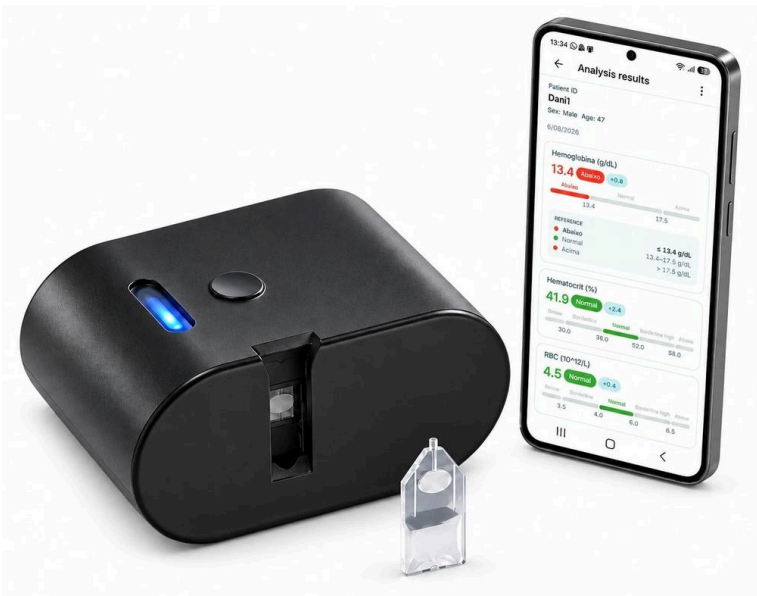


Hemospec

Point-of-care measurement of a red-cell panel and C-reactive protein

Blood testing, closer to the point of care.



Hemospec device, single-use cartridge and app.

01 Intended use

Hemospec is an in vitro diagnostic device for use by health professionals at the point of care. From a capillary or venous whole-blood sample it measures five red-cell parameters and C-reactive protein, without reagents, with results in seconds in the companion application.

The red-cell panel supports the detection and monitoring of anaemia; C-reactive protein is reported as a signal of inflammation, in three levels. Hemospec measures, records and displays results. Interpretation remains with the health professional, and the laboratory remains the reference for the full blood count and for quantitative CRP.

02 Sample and consumable

Sample	Capillary (fingertip) or venous whole blood, 8 µL. Venous samples from K2-EDTA or lithium heparin tubes.
Cartridge	Single use, reagent-free, class A under the IVDR. No cold chain, no sample preparation.

03

Measured parameters

PARAMETER	UNIT	CLINICAL RELEVANCE
Haemoglobin (Hb)	g/dL	Core anaemia parameter.
Haematocrit (Hct)	%	Red-cell share of blood volume.
Red blood cells (RBC)	$10^{12}/L$	Red-cell count.
Mean corpuscular volume (MCV)	fL	Average red-cell size; type of anaemia.
Red cell distribution width (RDW)	%	Variation in red-cell size.
C-reactive protein (CRP)	Level	Qualitative, with a semi-quantitative estimate, in three levels:
Normal below 10 mg/L	Mildly positive 10 to 40 mg/L	Strongly positive above 40 mg/L

CRP reference values with a positive opinion from Infarmed.

04

System components

Device	Compact optical reader, battery powered, connected to the application by Bluetooth or USB. Advanced optical technology; analytical models in the cloud.
Application	Android, iOS and Windows. Runs the test, displays the six results against reference ranges, keeps the patient history, exports PDF reports.
Back-office	Cloud back-office for the institution: devices, users, sessions, audit trail. Prepared for HL7/FHIR integration.

05

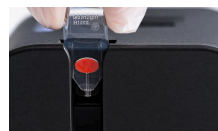
Workflow

01 Collection

Capillary drop or venous blood on the cartridge.


02 Preparation

Patient selected in the application. No user calibration.


03 Measurement

Cartridge inserted in the device. Optical reading.


04 Result

Six results in the application; history and PDF export.

06

Clinical settings
Primary care

Decision support in the consultation, in particular antibiotic stewardship informed by the CRP level.

Clinics and hospitals

Haemoglobin and haematocrit along the surgical pathway and in the post-operative period.

Community pharmacies

Measurement within a structured triage and referral service led by the pharmacist.

Care homes and day centres

Clinical surveillance of residents, with a history per resident.

Municipal programmes

Anaemia screening and inflammation flagging within community health programmes.

07

Clinical validation and regulatory status
Clinical validation

Clinical study at Hospital de Braga against the hospital's laboratory analysers. Summary available on request.

CE marking

CE marked (IVDD), registered with Infarmed. Transition to the IVDR, Regulation (EU) 2017/746, under way.

Intellectual property

Patent granted in the United States (USPTO); European application under examination (EPO).

Quality

Quality management system aligned with ISO 13485, in implementation.

08

Demonstration and contact

Demonstrations are arranged on site or online, about thirty minutes, with a measurement run end to end in the institution's own workflow.

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Hemospec is a CE-marked in vitro diagnostic device (IVDD). This document reflects the product as placed on the market in October 2026. Product information v0.3.