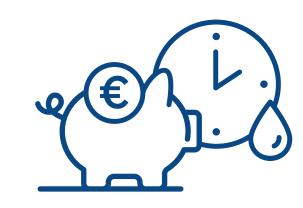
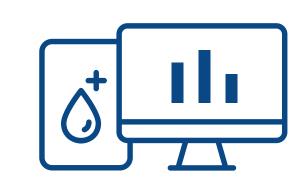


Helping Preterm Babies Get a Healthy Start In Life





Reduces the time for preparation and feeding, to lower costs



Minimises errors in the milk management and fortification process



Improves health outcomes by personalising infant nutrition



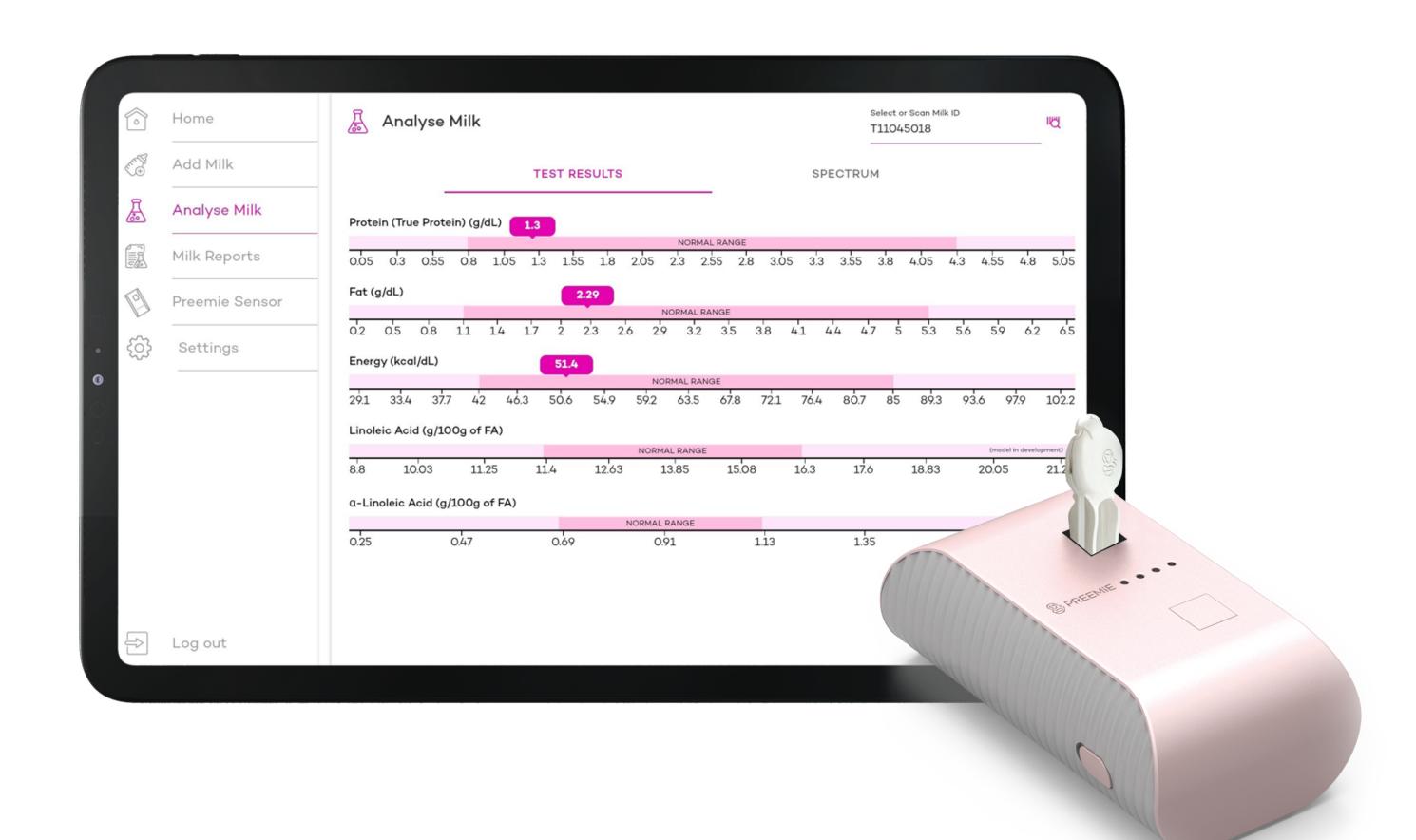
Enables exact fortification prescription based on the infant's growth history correlated with nutritional intake

How Preemie Sensor Works

The operations to analyse the milk are simple and fast: place a couple of drops of homogenized breast milk in the cuvette provided with the sensor, close it, and then insert it into the sensor. Upon pushing the scan button the light spectrum and the nutritional values of the analysed milk appear in the software in a few seconds.

What Preemie can Measure

TOTAL PROTEIN grams/100 mL	TOTAL LIPIDS grams/100 mL	ENERGY kcal/100 mL		DOCOSAHEXAENOIC ACID (DHA) g/100g of total fatty acids	LINOLEIC ACID (LA) g/100g of total fatty acids	A-LINOLENIC ACID (ALA) g/100g of total fatty acids
The content of actual protein is a key value for targeted milk fortification, since it is the one contributing the most to the infant's growth.	Fat is crucial for the development of the infant's neurological system.	Caloric intake is key for the development of the baby and is calculated from the content of various components.	brain and eye develop- ment. It improves respirato- ry outcomes and linear	preterm brain and eye development, and reduces the risk of certain diseases like bronchopulmonary dysplasia (BPD) and		



The Preemie Sensor is operated by either the Milk Analysis Mobile application or by SpecData mobile application.

Preemie Sensor Specifications

Weight: 300 g

Cuvette Well: 12.5 x 12.5 x 35 mm

Analytical Method: Near-infrared transmissive spectroscopy

Wavelength Range: 1350 nm to 2150 nm

Resolution (FWHM): 10 nm

Illumination Source: One integrated tungsten halogen lamp, 0.7 W

SNR: > 5000:1 for 1-second scan

Monochromator: Plane grating and TI DMD DLP2010NIR, 854×480 pixels

Detector: Single element 1 mm InGaAs detector, uncooled

Scan Pattern: 256 equally-spaced columns

Total Scan Time: 6 sec

Connectivity: Bluetooth Low Energy (wireless)

Preemie App: Android, with Internet connection

Power: USB (500 mA @ 5 V) to charge integrated Li-ion battery

Ambient Temperature, operating: +10°C to +40°C

Ambient Humidity, operating: 10 % to 80 % relative humidity, non-condensing