

omnys

Next Generation Blood Testing



Ultimate **compatibility.**
Maximum **sustainability.**



An Innobiochips innovation

www.omnys.fr

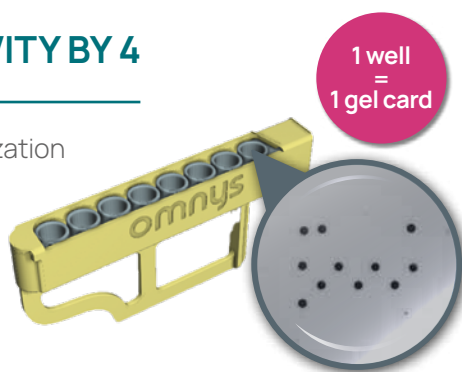
DISCOVER THE NEXT BLOOD GROUPING STANDARD USING AN INNOVATIVE MULTIPLEX APPROACH.

Omnys is based on breakthrough technologies that enable high-resolution testing of blood components: Standard ABO/D typing, Phenotyping, Extended phenotyping and IAT. Omnys enables clinicians to perform multiplex testing with unmatched precision, reliability, efficiency... And minimal sample volumes!

MULTIPLY LAB PRODUCTIVITY BY 4

Omnys enables a complete characterization of a blood unit with only 4 to 6 wells.

A real productivity leap over the 16 tests required with gel card or microplates based technologies.



MINIMIZE WASTE

Omnys dramatically reduces the amount of infectious lab waste and plastic needed to perform blood tests, as well as transportation costs.

A tangible contribution to your sustainability goals!



ENLARGE SAMPLE CHARACTERIZATION WITHOUT ANY ADDITIONAL COSTS

With complementary data and embedded controls at no additional cost, Omnys takes compatibility a step further.

Move to the next-generation of blood typing and ensure maximum donor/patient compatibility!



“ Innobiochips aims to develop novel diagnostic solutions that contribute to more precise and personalized medicine and improve the quality of patients' life. Over the past decade, our team has developed numbers of innovative technologies to upgrade quality and accuracy of diagnostic testing. Innobiochips was particularly active in the areas of transplantation, infectious and chronic diseases. Dedicated to transfusion, Omnys brings together several of our most advanced technologies to offer patients, caregivers and lab technicians a new standard in blood grouping that is more complete, efficient and durable. **”**



Vianney SOUPLET, Ph.D.
Innobiochips CEO.



AN INNOBIOCHIPS INNOVATION

Omnys is a solution developed by Innobiochips, a pioneer in multiplex in vitro biological testing.

It mobilizes several innovative patented technologies that combine exclusive surface chemistry, biomolecules engineering, fast bioassays approach and ultra-precise analyte detection.

Understanding life.

innobiochips

THE OMNYS SOLUTION

The Omnys solution is a fully integrated multiplex approach dedicated to blood grouping. This innovative solution is based on the combination of equipment, testing devices, reagents and consumables.

FULLY INTEGRATED HIGH THROUGHPUT TESTING AUTOMATE

The Omnys 300 is the one and only fully automated system with multiplex processing dedicated to blood grouping.

Omnys 300 is equipped with different modules to process samples from primary tube to final result:

- **2 Tips based pipetting modules:**

No washing, no rinsing and no decontamination is required, eliminating the risk of cross-contamination



- **3 Centrifugation modules:**

Each centrifuge accommodates up to 96 testing devices / 12 Foils. They operate independently to ensure high flexibility and throughput.

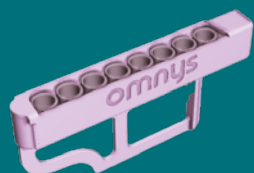
- **1 Reading module:**

Automated image acquisition and data extraction to get fast HD results.

HIGH-RESOLUTION VERSATILE 8-WELL-FOILS

Omnys is based on 4 different pre-printed testing devices called “Foils” enabling to test samples with a “pick-and-choose” approach:

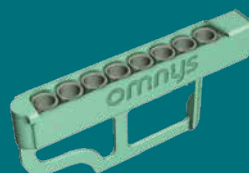
Each foil is composed of 8 wells, each dedicated to test 1 sample.



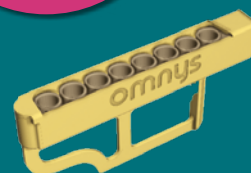
Omnys ABO/D
Typing and Serotyping



Omnys PHENO
Phenotyping Rh/Kell



Omnys IAT
Antibody Screening



Omnys ExtPHENO
Extended Phenotyping

1 Foil
=
8 samples
tested



READY-TO-USE REAGENTS

Omnys uses the usual controls, reagents and buffers to carry out the tests.

USER-FRIENDLY SOFTWARE

Omnys software combines data, quality control, sample and instrument management in one comprehensive solution.



OMNYS PRODUCT DIRECTORY

Name	Description	ABO and D typing	ABO Reverse typing	Pheno-typing	Extended pheno-typing	IAT
Equipments						
Omnys_300	The OMNYS_fully Automated System is a high throughput, fully automated, batch test system that consists of a pipetor, 3 centrifuges and a picture acquisition module.	X	X	X	X	X
OMNYS_Analyser	Software dedicated to interpret images from OMNYS automates	X	X	X	X	X
Testing devices						
OMNYS_ABO/D	8-wells foils (x6) for the determination of ABO forward and reverse group, and RhD antigen on the surface of red blood cells of human blood samples. 2 wells / sample - Quantity for 24 samples	X	X			
OMNYS_PHENO	8-wells foils (x6) for the determination of C, c, E, e, K and Cw antigens on the surface of red blood cells of human blood samples. 1 well / sample - Quantity for 48 samples			X		
OMNYS_ExtPHENO	8-wells foils (x6) for the determination of k, Fya, Fyb, Jka, Jkb, S and s antigens on the surface of red blood cells of human blood samples. 1 well / sample - Quantity for 48 samples				X	
OMNYS_IAT	8-wells foils (x6) used for the evaluation of the Indirect Antiglobulin Test of different human blood samples 1 well / sample - Quantity for 48 samples 3 wells / sample - Quantity for 16 samples					X
Incubation reagents						
O_Typing Buffer	96-deepwell plate loaded with appropriate buffer enable to dilute human red cells. 1 well / sample - Quantity for 96 samples	X		X	X	
O_Rev. Typing Buffer	96-well plate loaded with appropriate buffer enable to dilute human plasma for Reverse typing testing. 1 well / sample - Quantity for 96 samples		X			
O_IAT Buffer	96-well plate loaded with appropriate buffer enable to dilute human plasma for IAT testing. 1 well / sample - Quantity for 96 samples					X
O_IAT HD Buffer	10mL bottle of buffer dedicated to perform IAT test. Quantity sufficient for 200 tests (50µL/test)					X
O_A1&B cells	2x 10mL of 0,8% suspension of A1 & B cells for reverse typing Quantity sufficient for 500 tests (15µL/test/cell)		X			
O_3xOcells	3x 10mL of 0,8% suspension of 3 different O cells for IAT Quantity sufficient for 200 tests (50µL/test/cell)					X
Internal Quality Control						
O_QC#1	ABO-D - Rh. Kell Quality control - 5,5mL x 4 échantillons Quantity sufficient for 500 tests (5µL/test)	X	X	X	X	
O_QC#2	IAT Quality control - 2x 5,5mL x 2 échantillons Quantity sufficient for 500 tests (20µL/test)					X
Others						
O_Tips	96 tips rack dedicated to OMNYS automate	X	X	X	X	X

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