

# Interchim Innovations

Interbiotech - BioScience Innovations

[Français](#)

H10E

## IMAPlate Technology (Intelligent MultiFunctional Analysis)

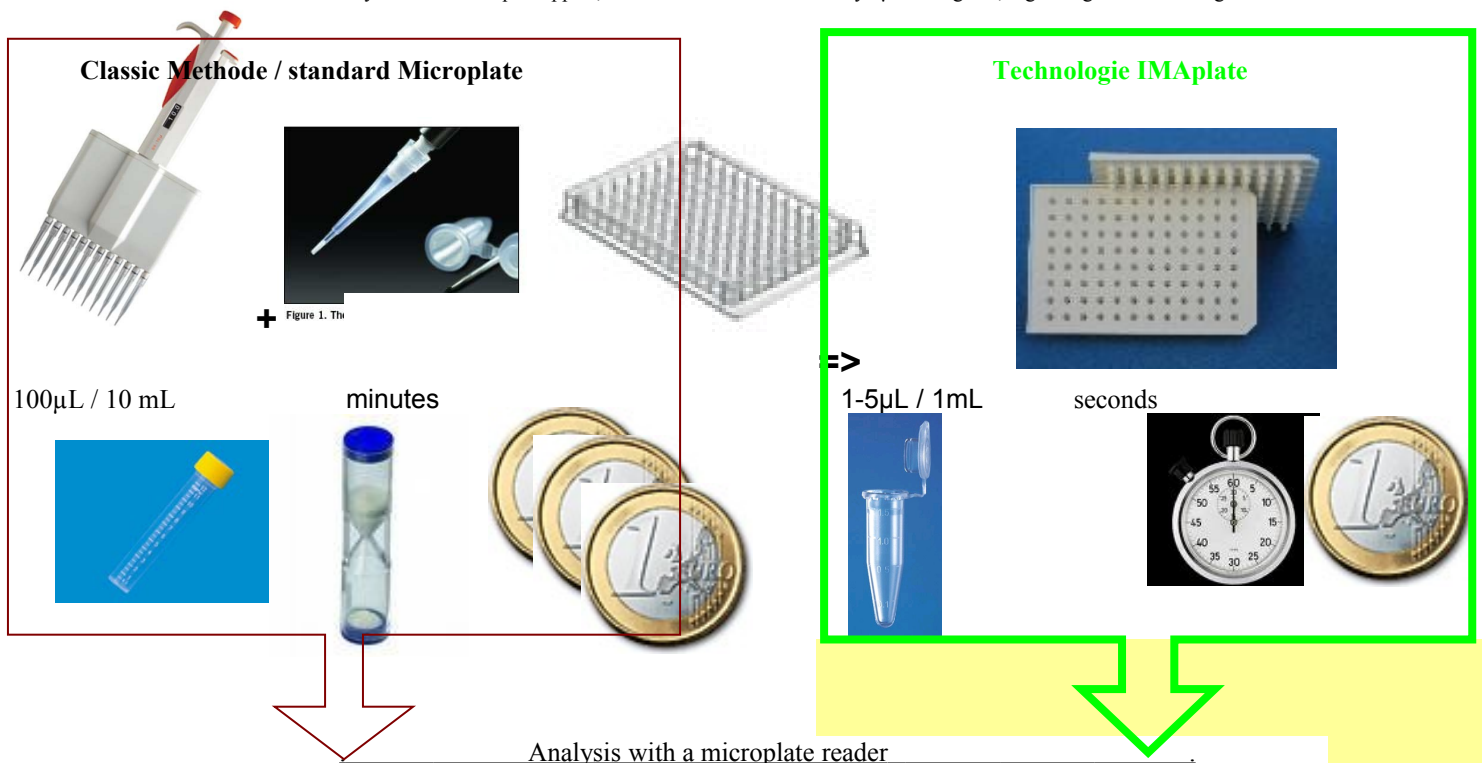
IMAPlate is a polystyrene plate of 96 "microcuvettes". It is used to simplify and accelerate the handling of reagents, AND to make measures of absorbencies in UV, visible or InfraRed, of fluorescence or luminescence, compatible with any standard reader of microplate, while yielding signals at least equal or superior to standard microplates, but with only 5 $\mu$ L volume!

### Applications

• **96-channel pipetting for liquid transfer:**  
ex. pipette and empty 96 x 5 $\mu$ L in only 10 seconds!

• **96 bottom-free micro-cuvette array for UV, VIS or IR spectroscopy:**  
ex. assay DNA/RNA and proteins on just 5 $\mu$ L with your usual microplate reader !

• **96 microwell plate for parallel reactions, immuno-assays and cell assays**  
ex. do 96 reactions chemical or enzymatic on a unique support, miniaturize ELISAs with only 5 $\mu$ L of reagents, higher signals and saving time !



Analysis with a microplate reader

Added value of IMAPlates :

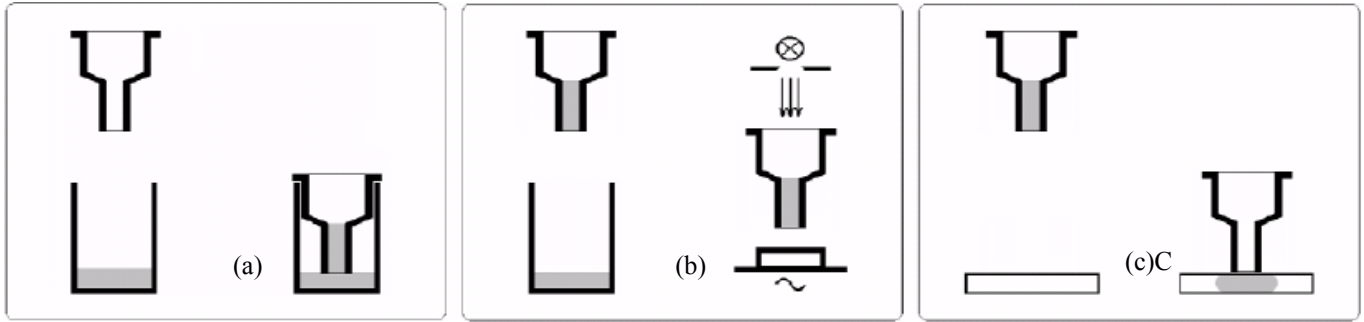
- **Miniaturization:** saving *limited samples* and *costly reagents* >3-20x / lowered price per test
- **Transfer of liquid integrated** to assays
- **High analysis throughput**, even manually
- **Robust** - highly reproducible
- **Reduce reactions times** (solid-phase assays)
- **Increase sensitivity**



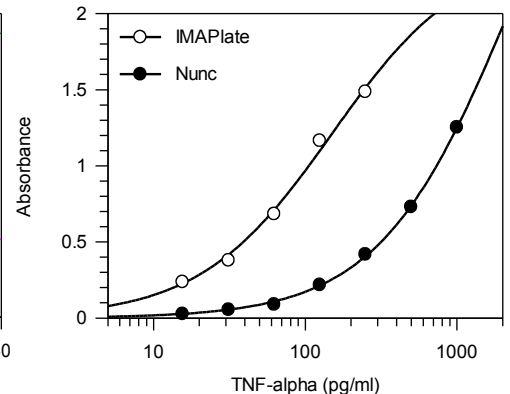
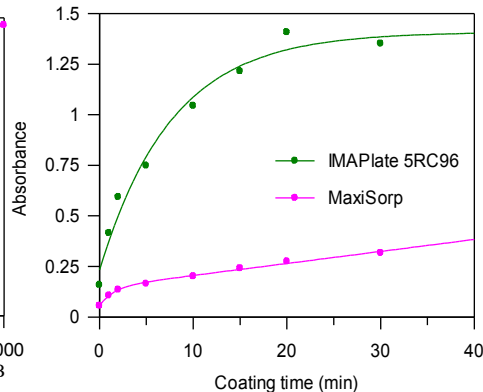
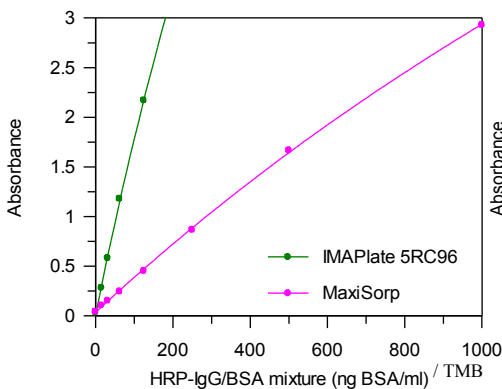
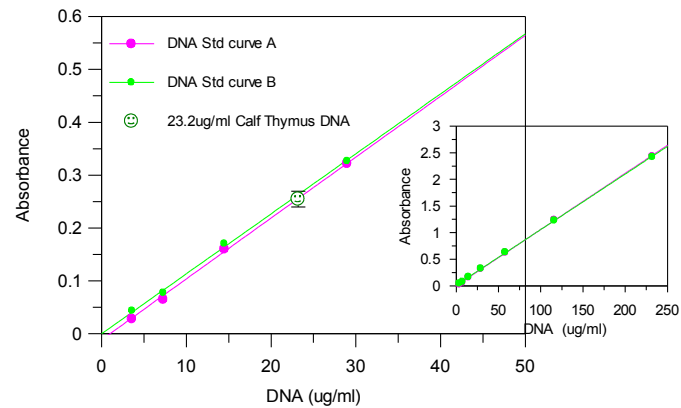
## How it works?

- **Loading, un-loading and washes are simplified, accelerated and reliable:**

samples and reagents and buffers are loaded simultaneously by capillary force (a)(precise volume), assayed, then drawn away by an absorbent paper (c) or by centrifugation. ex. **1 plate/ samples can be washed in just 10 seconds, without machine !**



- Microcuvets of 5µL **save up 20 fold (rare) samples and any (costly) detection reagents** (ex in ELISA).
- Reading (b): the **optical path is perfectly defined**, and longer to those of standard microplates! Hence **detection sensitivity is superior**.
- The microcuvets have no bottom! Thus **no parasite optical absorption** takes place, and you can work in UV, IR..., with superior sensitivity. You even can **recover the samples** (c).
- The microcuvets have a **geometry more favorable for immunoenzymatic reactions** (surface/volume 3.8x superior), compared with wells of standard microplates: hence **kinetic is speeded** at each step (ex incubations 2 fold shorter in ELISA).



IMAplate technology combines advantages notably in ELISA, and for multiplexed analysis.

IMAplate offers a solution at the same time more flexible, quicker and cost-effective, when:

- samples are in limited quantity or precious,
- reagents are costly (case of commercial kits),
- several analysis are performed on each sample (multiplex),
- to speed steps and handling with reliability.

Examples of applications particularly appropriate:

- serological analysis of many analytes in small animals serums
- multiplex screening (pharma, cosmeo, vaccines)

## For ordering:

Designation	Product number	Quantity
IMAplate™ Start Kit*	DR9601	1 Kit*
IMAplate™ (96 µcuvets) – White§	DR9611	5 ea
IMAplate™ (96 µcuvets) – Black§	DT5431 , 5 ea	5 ea
IMAplate™ (96 µcuvets) – Yellow§	DT5441 , 5 ea	5 ea

### Analysis of 5 biomarkers in 8 mice at 10 times points

	Method 1 ELISA	Method 2 Luminex	Best Method. IMAplate
Plasma (/mouse)	2ml	0.1ml	0.1ml
Tests.	800 (8x10x10)	80 (8x10)	80 (8x10)
Cost/reagent (kit)	173 000 €	72 000 € #	51 840 €
Pipette tip (box)	180	40	0
Person/jour	30 (4 kits/jr)	14 (2 kits/jr)	6 (20 kits/jr)
Valorized data	All*	Part	All
Data	Quantitative	Qualitative	Quantitative

\*unknown individual variation for each time point

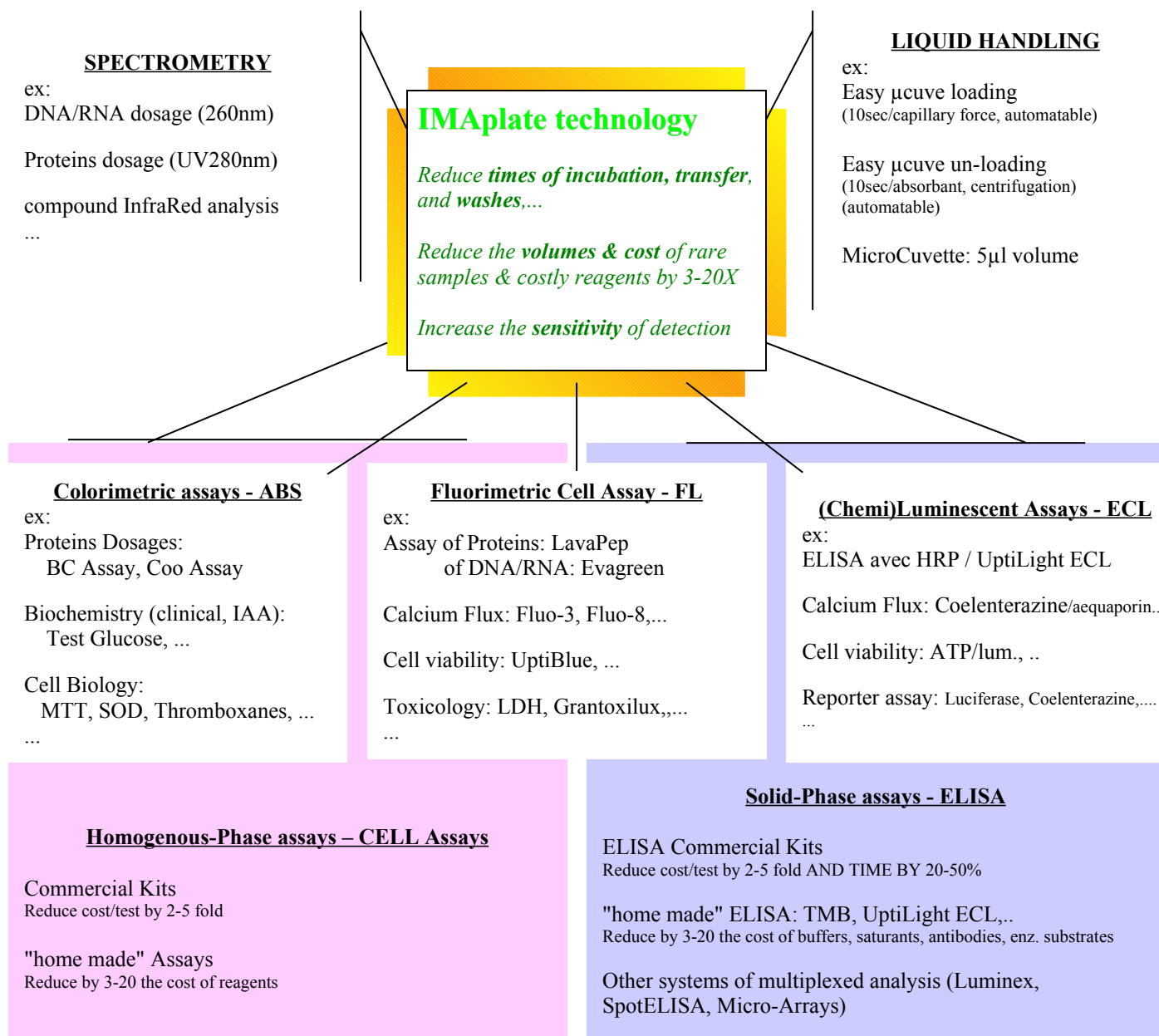
# + cost of instrument

### Prices and technical sheets on-line

§ White plate are recommended for luminescence measurements, Black for fluorescence measurements, and yellow plates for UV-vis spectrometry and sample handling

\*contains 5 white IMAplates and Reader adapter

**Integrate your different methods/analysis on a unique support, flexible & efficient, without instrument investment !**



**Featured applications:** [NT-DR961d](#) DNA/RNA quantification and quality analysis  
**Protein quantification:** Bradford Protein Assay  
 A simple solution to improve the detection sensitivity of ELISA  
**Miniaturized Enzyme-Linked ImmunoSorbent Assay**

**INTERCHIM BioScience Innovations also provides associated reagents: ex.:**

### Colorimetric & Fluorimetric assays – Biochemistry

<b>BC Assay protein determination kit</b> Bicinchoninic acid based method-590nm. Sensitivity 5-20 $\mu$ g/ml. Reading at 562nm. Compatible with detergents	<b>UP4080A, 1kit (500/5000tests)</b>	<b>UP4080B, 1kit (125/1250tests)</b>
<b>MicroBC Assay protein determination kit</b> Version of BC Assay with sensitivity 0.5 $\mu$ g/ml.	<b>UP75860A, 1kit (500/3400tests)</b>	<b>UP75860B, 1kit (50/340tests)</b>
<b>Coo Assay protein determination kit</b> Modified Bradford (Coomassie based method. Reading at 570-610nm. Sensitivity 1 $\mu$ g/ml. Compatible with reducing agents	<b>UF86400, 1kit (500/4000tests)</b>	<b>UPF86401, 1kit (125/1000tests)</b>
<b>LavaPep peptide &amp; proteins assay</b> Epicocconone based method. Reading at Ultimate sensitivity (50-160pg/ml protein, peptide)	<b>CH4191, 1Kit (up to 2000tests)</b>	
<b>Glucose assay</b> Hexokinase/G6PDH based method. Reading at 340nm.	<b>U67120, 1Kit (32tests)</b>	

[Prices and technical sheets on-line](#)



## Colorimetric & Fluorimetric assays – Cell Biology

<b>UptiBlue™ Viable Cell Counting Reagent (Fluorescent)</b>	<b>UP669412, 25ml</b>	<b>UP669413, 100ml</b>
Alternative to MTT, only one-step, abs or fluo (more sensitive), non toxic to cells and users, more flexible (bacteria, adherent cells)		
<b>MTT (Thiazoyl Blue Tetrazolium Bromide, Ultrapure)</b>	<b>FP-65939A, 1g</b>	
<b>MTT Assay (Colorimetric)</b>	<b>FT-45547A, 10x100tests</b>	<a href="#">Prices and technical sheets on-line</a>
<b>ATP determination kit (Luminescent)</b>	<b>FP-S2841B, 100ml</b>	
Method using the Luciferase/Luciferine. Linear from 0.1pmol to >3 logs.		
<b>Fluo-3 -AM</b>	<b>FP-78932A, 1mg</b>	<b>FP-78932C, 20x50µg</b>
<b>Fluo-8 -AM</b>	<b>CP7501, 5x50µg</b>	<b>CP7504, 1mg</b>
Fluo-8 is 2 fold more sensitive than Fluo-4, and 4 fold more than Fluo-3, its load at room temperature, and do not need to wash cells		
<b>Grantoxilux cytotoxicity assay (Fluo.)</b>	<b>BP8891, 50 tests</b>	
Measure the GranzymeB (path of cell-mediated apoptosis)		
<b>Cytoxilux cytotoxicity assay (Fluo.)</b>	<b>BP8881, 50 tests</b>	
Measure the caspase-6 (classic path of apoptosis)		

## ImmunoAssay - Tampons & Agents Saturants

<b>BSA powder</b>	<b>UPQ84170, 100g</b>	<b>UPQ84172, 1Kg</b>
<b>BSA 30% solution</b>	<b>UP900100, 50ml</b>	<b>UP900101, 500ml</b>
<b>SeaBlock solution (non mammalian serum)</b>	<b>UP40301A, 500ml</b>	
<b>Tween® 20, pure</b>	<b>15874A, 1 L</b>	
<b>Tween® 20, 20% solution, oxidant free</b>	<b>UP158740, 5 x 10 ml</b>	<a href="#">Prices and technical sheets on-line</a>
<b>PBS powder packs (makes 10L)</b>	<b>UP68723A, 1 pack</b>	

## ImmunoAssay - Anticorps Secondaires

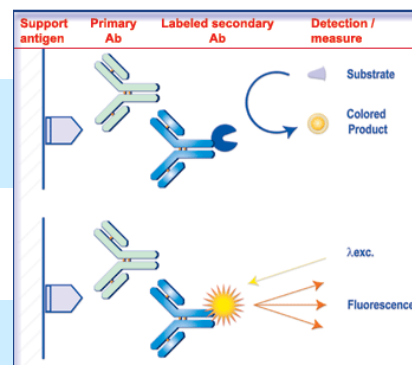
<b>anti Human IgG(H+L) – HRP (Gt)</b>	<b>UP135240, 1mg</b>
<b>anti Rabbit IgG(H+L) – HRP (Gt)</b>	<b>UP511380, 1mg</b>
<b>anti Mouse IgG(H+L) – HRP (Gt)</b>	<b>UP446330, 1mg</b>

Many other formats and specificities are available (species, host, pre-adsorbed, Fab'2, anti-isotypes)

## ImmunoAssay - Substrats chromogéniques

<b>TMB, "Standard" solution</b>	<b>UP664780, 200 ml</b>	
<b>BCIP/NBT</b>	<b>UP099851, 100ml</b>	
<b>pNPP Tablets (30mg pNPP weighed)</b>	<b>UP732500, 100 Tabs</b>	<b>UP732501, 1000 tabs</b>
<b>pNPP Solution for ELISA</b>	<b>UP664791, 500 ml</b>	
<b>UptiLight ELISA UltraSensitivity HRP ECL Substrate</b>	<b>996201, 60ml</b>	<b>996203, 500ml</b>

Many other formulated substrates are available, but also powder, bulk quantities...



[Products HighLights Overview](#)

### Information inquire

Reply by Fax : +33 (0) 4 70 03 82 60 or email at [interbiotech@interchim.com](mailto:interbiotech@interchim.com)

I would like to receive further information on: \_\_\_\_\_

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Company/Institute: \_\_\_\_\_ Service, Lab: \_\_\_\_\_

Adress: \_\_\_\_\_

Postcode: \_\_\_\_\_ Town: \_\_\_\_\_

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