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NEXT GENERATION FLOW™

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SOFTWARE: INFINICYT™

EU	ROFI	LOW™	DATAE	BASES	\land	$ \land \land $	



About Us

Cytognos is a biotechnology company specialized in clinical flow cytometry, that offers complete solutions for oncohematology, clinical immunology laboratories and clinical trials. Our goal is to help flow cytometry laboratories to provide better patient care, improving their efficiency and workflow through our standardized, efficient, reproducible and highly sensitive solutions.

Our products are developed in close cooperation with international universities, research centers and innovative companies in order to obtain the best tools for our customers.

Cytognos products can either be supplied directly or through a worldwide network of distributors.

Please visit our website **www.cytognos.com** for more information about our portfolio.



On-hand Technical Support

Cytognos technical specialists are highly qualified to provide expert support to our customers.

Our personnel provide field or email-based assistance on:

- Standard operating protocols for instrument set-up and compensation.
- Standard Operating Procedures (SOPs) for sample preparation and staining.
- Analysis of flow cytometric data using Infinicyt™ Software.

Regulatory Status

Cytognos, S.L. is certified by quality management standards **ISO 9001:2015** and **ISO 13485:2016**. All Cytognos, S.L. products for in vitro diagnostic comply with Directive **98/79/EC** that guarantees the highest level of safety and quality.

Based on this legal framework, the products offered in this catalog are classified as:

- Medical devices for in vitro diagnostics according to European Directive 98/79/EC with the CE "European Conformity" and IVD "In Vitro Diagnostic Use" marking. Products to be used in vitro for the examination of specimens derived from the human body in order to obtain information concerning a physiological or pathological state or to monitor the efficiency of therapeutic measures. Sanitary IVD products offer the highest level of sanitary protection and guarantee the compliance with the performance specifications claimed by the manufacturer in conformance with Directive 98/79/EC of the European Union. All CE/IVD products can also be provided as RUO reagents.
- Products for research use are marked as RUO "Research Use Only". These products are intended to be used in basic research and should not be used for clinical diagnosis, prognosis or therapeutic determinations.



REAGENTS

Reagents for use in flow cytometry

Cytognos provides a variety of products to satisfy user needs in flow cytometry laboratories. We offer reagents for instrument standardization and sample preparation.

Available fluorochromes

Fluorochrome	Excitation laser line (nm)	Maximum excitation peak (nm)	Maximum emission peak (nm)
Pacific Blue™	405 Violet laser	405	450
OC515™ Orange Cytognos 515	405 Violet laser	405	515
FITC Fluorescein Isothiocyanate	488 Blue laser	495	519
PE R-Phycoerythrin	488, 532, 561 Blue laser	496, 564	578
PerCP-Cyanine5.5 Peridin Chlorophyll protein-Cyanine 5.5 Tandem	488, 532 Blue laser	482	695
PE-Cyanine5 R-Phycoerythrin-Cyanine 5 Tandem	488, 532, 561 Blue laser	496, 564	670
PE-Cyanine7 R-Phycoerythrin-Cyanine 7 Tandem	488, 532, 561 Blue laser	496, 564	785
APC Allophycocyanin	595, 633, 635, 640, 647 Red laser	650	660
APC-C750™ Allophycocyanin-C750 Tandem	595, 633, 635, 640, 647 Red laser	751	779

Pacific Blue[™] conjugated antibodies are provided under an agreement between Life Technologies Corporation and Cytognos, S.L. The manufacture, usage, sale or importation of Pacific Blue[™] may be subjected to one or more U.S. patents, pending applications, and corresponding non-U.S. equivalents owned by Life Technologies Corporation.

APC-C750[™] fluorochrome is a high quality APC tandem for the red diode-laser designed to achieve the best performance. This fluorochrome is compatible with any flow cytometer equipped with a red diodelaser and the appropriate filters and detectors for the far red signal.

New in 2021

PATENTED!

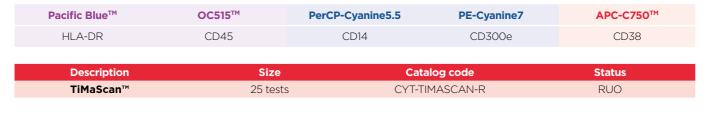
TiMaScan™

APLS-AML

Monocyte Subsets Tube

TiMaScan™ (Monocyte Subsets Tube) is a pre-mixed combination that allows for the accurate detection and enumeration of the main monocyte subsets, as important parameters for tissue damage monitoring.

Several studies have identified relevant changes in relative and absolute numbers of circulating monocytes/ macrophages in the aftermath of several clinical settings, specially involving tissue damage. For this reason, peripheral blood monitoring represents a sensitive test for the detection and quantification of the different subsets of monocytes. More information at www.timascan.org.





APLS-AML is a 4-color antibody combination that should be used with Alkaline phosphatase live staining for the evaluation of myeloid blasts. This is a lyse-non-wash method that permits combining functional analysis and immunophenotyping to evaluate the activity of alkaline phosphatase in myeloid blasts.

Acute Myeloid Leukemia (AML) is a heterogeneous pathology that is complex to study due to the heterogeneity of the pathological population. An increased alkaline phosphatase activity in leukemic myeloid precursors has been proven to be significantly associated with a higher risk of relapse or resistance to treatment and mortality (Rico, et al. 2019). **APLS-AML** is commercialized under license from Josep Carreras Leukaemia Research Institute.

PE	PerCP-Cyanine5.5	APC	APC-C750 ™
HLA-DR	CD34	CD117	CD45
Description	Size	Catalog code	Status
APLS-AML	25 tests	CYT-APLS-AML-R	RUO



T-Cell Subsets Tube

T-Cell Subsets Tube 7-antibody combination allows the identification of different T-cell subsets for the evaluation of their relative numbers and kinetics, which can have relevance in the immune response. This tube can be complemented with different types of markers in the FITC channel.

Pacific Blue™	OC515™	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750 ™
CD3	CD45	Drop-in	CD27	CD4	CD8	CD62L	CD45RO
Descrip	tion		Size	Catal	og code	Sta	itus
T-Cell Subse	ets Tube	2	20 tests	CYT-TCEL	LSUBSETS-R	RU	JO

Antibodies against human antigens

Single-color antibodies

CD1a	Catalog code	Size	Clone	Isotype	Status
FITC	CYT-1AF1	200 tests	NA1/34-HLK	lgG2a	RUO
CD2	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-2F7	200 tests	RPA-2.10	lgG1	RUO
CD3	Catalog code	Size	Clone	lsotype	Status
Pacific Blue™	CYT-3PBZ	100 tests	UCHT-1	lgG1	RUO
FITC	CYT-3F9	200 tests	UCHT-1	lgG1	CE/IVD
PE	CYT-3PE1	200 tests	UCHT-1	lgG1	CE/IVD
PE-Cyanine5	CYT-3C4	200 tests	UCHT-1	lgG1	CE/IVD
PerCP-Cyanine5.5	CYT-3C9	50 tests	UCHT-1	lgG1	CE/IVD
APC	CYT-3AP10	200 tests	UCHT-1	lgG1	CE/IVD
APC-C750™	CYT-3AC750	50 tests	UCHT-1	lgG1	CE/IVD
CD4	Catalog code	Size	Clone	lsotype	Status
Pacific Blue™	CYT-4PBZ	100 tests	RPA-T4	lgG1	CE/IVD
FITC	CYT-4F1	200 tests	RPA-T4	lgG1	CE/IVD
PE	CYT-4PE1	200 tests	RPA-T4	lgG1	CE/IVD
PE-Cyanine5	CYT-4C1	200 tests	RPA-T4	lgG1	CE/IVD
PerCP-Cyanine5.5	CYT-4C2	50 tests	RPA-T4	lgG1	CE/IVD
APC	CYT-4AP4	200 tests	RPA-T4	lgG1	RUO
CD5	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-5F4	200 tests	MCD5	lgG2b	CE/IVD
PE	CYT-5PE4	200 tests	MCD5	lgG2b	RUO
PerCP-Cyanine5.5	CYT-5C2	50 tests	L17F12	lgG2a	CE/IVD
CD7	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-7F5	200 tests	B-B7	lgG1	RUO
APC	CYT-7AP4	200 tests	HULY-M2	lgG2a	CE/IVD

CD8	Catalog code	Size	Clone	Isotype	Status
FITC	CYT-8F8	200 tests	UCHT-4	lgG2a	CE/IVD
PE	CYT-8PE9	200 tests	UCHT-4	lgG2a	CE/IVD
PE-Cyanine5	CYT-8C	200 tests	UCHT-4	lgG2a	CE/IVD
APC	CYT-8AP1	200 tests	UCHT-4	lgG2a	RUO
CD9	Catalog code	Size	Clone	lsotype	Status
Pacific Blue™	CYT-9PBZ	100 tests	MEM-61	lgG1	RUO
CD10	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-10F1	200 tests	SN5c	lgG1	RUO
PE	CYT-10PE8	100 tests	CB-CALLA	lgG2b	RUO
APC	CYT-10AP	100 tests	HI10a	lgG1	RUO
APC-C750 ™	CYT-10AC750	50 tests	HI10a	lgG1	CE/IVD
CD11c	Catalog code	Size	Clone	lsotype	Status
PE	CYT-11cPE3	200 tests	B-ly6	lgG1	CE/IVD
CD13	Catalog code	Size	Clone	lsotype	Status
PE	CYT-13PE3	100 tests	WM15	lgG1	RUO
		<u> </u>			
CD14	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-14F6	200 tests	MEM-15	lgG1	RUO
PE	CYT-14PE7	200 tests	MEM-15	lgG1	RUO
APC	CYT-14AP3	200 tests	47-3D6	lgG1	CE/IVD
CD15	Catalog code	Size	Clone	lsotype	Status
	CYT-15F4		MCS-1		CE/IVD
FITC	CY1-15F4	100 tests	MCS-I	lgG3	CE/IVD
					a
CD16	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-16F6	200 tests	3G8	lgG1	CE/IVD
PE	CYT-16PE7	200 tests	3G8	lgG1	RUO
	Catalog and	Cino	Class	leats rea	Ctatura
CD16+CD56	Catalog code CYT-	Size	Clone	Isotype	Status
PE	16PE7+56PE	100 tests	3G8 + C5.9	lgG1 + lgG2b	CE/IVD

CD19	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-19F	200 tests	SA287	lgG1	CE/IVD
PE	CYT-19PE9	200 tests	SA287	lgG1	CE/IVD
PE-Cyanine5	CYT-19C1	200 tests	SA287	lgG1	RUO
PerCP-Cyanine5.5	CYT-19C8	50 tests	HIB19	lgG1	RUO
PE-Cyanine7	CYT-19C4	100 tests	SA287	lgG1	CE/IVD
APC	CYT-19AP1	200 tests	SA287	lgG1	RUO
APC-C750™	CYT-19AC750-2	50 tests	SA287	lgG1	RUO
CD20	Catalog code	Size	Clone	lsotype	Status
Pacific Blue™	CYT-20PBZ	100 tests	2H7	lgG2b	CE/IVD
FITC	CYT-20F3	200 tests	2H7	lgG2b	CE/IVD
PE	CYT-20PE5	200 tests	B-ly1	lgG1	RUO
APC	CYT-20AP2	200 tests	2H7	lgG2b	RUO
CD21	Catalog code	Size	Clone	lsotype	Status
АРС-С750™	CYT-21AC750	50 tests	B-ly4	lgG1	RUO
	_				
CD22	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-22F3	200 tests	B-ly8	lgG1	RUO
PE	CYT-22PE6	200 tests	MEM-01	lgG1	RUO
APC	CYT-22AP	100 tests	S-HCL-1	lgG2b	RUO
CD23					
	Catalog code	Size	Clone	lsotype	Status
FITC	Catalog code CYT-23F5	Size	Clone EBVCS-5	lsotype IgG1	Status RUO
FITC	CYT-23F5	100 tests	EBVCS-5	lgG1	RUO
FITC PE	CYT-23F5 CYT-23PE3	100 tests 200 tests	EBVCS-5 B-G6	lgG1 lgG1	RUO RUO
FITC PE CD25	CYT-23F5 CYT-23PE3 Catalog code	100 tests 200 tests Size	EBVCS-5 B-G6 Clone	IgG1 IgG1 Isotype	RUO RUO Status
FITC PE CD25 FITC	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6	100 tests 200 tests Size 100 tests	EBVCS-5 B-G6 Clone MEM-181	IgG1 IgG1 Isotype IgG1	RUO RUO Status RUO
FITC PE CD25 FITC PE APC	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP	100 tests 200 tests Size 100 tests 100 tests 100 tests	EBVCS-5 B-G6 Clone MEM-181 MEM-181 M-A251	IgG1 IgG1 Isotype IgG1 IgG1	RUO RUO Status RUO RUO RUO
FITC PE CD25 FITC PE APC CD31	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP Catalog code	100 tests 200 tests Size 100 tests 100 tests 100 tests Size	EBVCS-5 B-G6 Clone MEM-181 MEM-181 M-A251 Clone	IgG1 IgG1 Isotype IgG1 IgG1 Isotype	RUO RUO Status RUO RUO Status
FITC PE CD25 FITC PE APC	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP	100 tests 200 tests Size 100 tests 100 tests 100 tests	EBVCS-5 B-G6 Clone MEM-181 MEM-181 M-A251	IgG1 IgG1 Isotype IgG1 IgG1	RUO RUO Status RUO RUO RUO
FITC PE CD25 FITC PE APC CD31	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP Catalog code	100 tests 200 tests Size 100 tests 100 tests 100 tests Size	EBVCS-5 B-G6 Clone MEM-181 MEM-181 M-A251 Clone	IgG1 IgG1 Isotype IgG1 IgG1 Isotype	RUO RUO Status RUO RUO Status
FITC PE CD25 FITC PE APC CD31 FITC	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP Catalog code CYT-3IF2	100 tests 200 tests Size 100 tests 100 tests 100 tests Size 200 tests	EBVCS-5 B-G6 Clone MEM-181 MEM-181 M-A251 Clone WM59	IgG1 IgG1 Isotype IgG1 IgG1 Isotype IgG1	RUO RUO RUO RUO RUO Status RUO
FITC PE CD25 FITC PE APC CD31 FITC CD33	CYT-23F5 CYT-23PE3 Catalog code CYT-25F6 CYT-25PE5 CYT-25AP Catalog code CYT-31F2	100 tests 200 tests Size 100 tests 100 tests 100 tests Size 200 tests	EBVCS-5 B-G6 Clone MEM-181 M-A251 Clone WM59 Clone	IgG1 IgG1 Isotype IgG1 IgG1 Isotype IgG1	RUO RUO Status RUO RUO Status RUO

CD34	Catalog code	Size	Clone	lsotype	Status	
PerCP-Cyanine5.5	CYT-34C2	50 tests	581	lgG1	CE/IVD	
CD35	Catalog code	Size	Clone	Isotype	Status	
FITC	CYT-35F	100 tests	E11	lgG1	RUO	
CD36	Catalog code	Size	Clone	Isotype	Status	
FITC	CYT-36F3	100 tests	CLB-IVC7	lgG1	CE/IVD	
					2 1	
CD38	Catalog code	Size	Clone	lsotype	Status	
PURE	CYT-38P1	100 tests	LD38	lgG1	CE/IVD	EUROFLOW™
FITC	CYT-38F	200 tests	LD38	lgG1	CE/IVD	EUROFLOW™
multi-epitope-FITC	CYT-38F2	50 tests	multi-epitope	multi-epitope	CE/IVD	EUROFLOW™
PE	CYT-38PE2	200 tests	T16	lgG1	CE/IVD	
APC-C750 ™	CYT-38AC750	50 tests	LD38	lgG1	CE/IVD	
CD39	Catalog code	Size	Clone	Isotype	Status	
PE	CYT-39PE	100 tests	TU66	lgG2b	RUO	
CD42a	Catalog code	Size	Clone	Isotype	Status	
FITC	CYT-42aF	100 tests	GRP-P	lgG1	RUO	
CD 47		Cina		la a buva a	Chabas	
CD43	Catalog code	Size	Clone	Isotype		
FITC					Status	
	CYT-43F2	200 tests	DFT1	lgG1	RUO	
APC-C750™	CYT-43F2 CYT-43AC750	200 tests 50 tests	DFT1 TP1/36			
	CYT-43AC750	50 tests	TP1/36	lgG1 lgG1	RUO	
CD45	CYT-43AC750 Catalog code	50 tests Size	TP1/36 Clone	lgG1 IgG1 Isotype	RUO RUO Status	
CD45 Pacific Blue™	CYT-43AC750 Catalog code CYT-45PBZ	50 tests Size 100 tests	TP1/36 Clone GA90	lgG1 lgG1 lsotype lgG2a	RUO RUO Status CE/IVD	
CD45 Pacific Blue™ OC515™	CYT-43AC750 Catalog code CYT-45PBZ CYT-45OC	50 tests Size 100 tests 100 tests	TPI/36 Clone GA90 GA90	IgG1 IgG1 Isotype IgG2a IgG2a	RUO RUO Status CE/IVD CE/IVD	EUROFLOW™
CD45 Pacific Blue™ OC515™ FITC	CYT-43AC750 Catalog code CYT-45PBZ CYT-45PC CYT-45F6	50 tests Size 100 tests 100 tests 200 tests	TP1/36 Clone GA90 GA90 HI30	IgG1 IgG1 Isotype IgG2a IgG2a IgG1	RUO RUO Status CE/IVD CE/IVD	EUROFLOW™
CD45 Pacific Blue™ OC515™ FITC PE-Cyanine5	CYT-43AC750 Catalog code CYT-45PBZ CYT-45PC CYT-45F6 CYT-45C11	50 tests Size 100 tests 100 tests 200 tests 200 tests	TP1/36 Clone GA90 GA90 HI30 HI30	lgG1 lgG1 lsotype lgG2a lgG2a lgG1 lgG1	RUO RUO Status CE/IVD CE/IVD CE/IVD	EUROFLOW™
CD45 Pacific Blue™ OC515™ FITC PE-Cyanine5 PerCP-Cyanine5.5	CYT-43AC750 Catalog code CYT-45PBZ CYT-45OC CYT-45F6 CYT-45C11 CYT-45C8	50 tests Size 100 tests 100 tests 200 tests 200 tests 50 tests	TP1/36 Clone GA90 GA90 HI30 HI30 HI30	lgG1 lgG2a lgG2a lgG2a lgG1 lgG1 lgG1	RUO RUO Status CE/IVD CE/IVD CE/IVD CE/IVD	
CD45 Pacific Blue™ OC515™ FITC PE-Cyanine5 PerCP-Cyanine5.5 PerCP-Cyanine5.5	CYT-43AC750 Catalog code CYT-45PBZ CYT-45PGZ CYT-45C1 CYT-45C8 CYT-45C10	50 tests Size 100 tests 100 tests 200 tests 200 tests 50 tests 50 tests	TP1/36 Clone GA90 GA90 HI30 HI30 HI30 EO1	lgG1 lgG2 lgG2a lgG2a lgG1 lgG1 lgG1 lgG1	RUO RUO Status CE/IVD CE/IVD CE/IVD CE/IVD CE/IVD	EUROFLOW [™]
CD45 Pacific Blue™ OC515™ FITC PE-Cyanine5 PerCP-Cyanine5.5	CYT-43AC750 Catalog code CYT-45PBZ CYT-45OC CYT-45F6 CYT-45C11 CYT-45C8	50 tests Size 100 tests 100 tests 200 tests 200 tests 50 tests	TP1/36 Clone GA90 GA90 HI30 HI30 HI30	lgG1 lgG2a lgG2a lgG2a lgG1 lgG1 lgG1	RUO RUO Status CE/IVD CE/IVD CE/IVD CE/IVD	

CD49d	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-49dF	200 tests	44H6	lgG1	RUO
CD55	Catalog code	Size	Clone	lsotype	Status
PE	CYT-55PE3	200 tests	NaM16-4D3	lgG1	RUO
CD56	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-56F	200 tests	C5.9	lgG2b	CE/IVD
PE	CYT-56PE	200 tests	C5.9	lgG2b	CE/IVD
APC	CYT-56AP	200 tests	C5.9	lgG2b	RUO
CD59	Catalog code	Size	Clone	Isotype	Status
FITC	CYT-59F6	200 tests	MEM-43	lgG2a	RUO
PE	CYT-59PE7	200 tests	NaM172-2B5	lgG1	RUO
CD62L	Catalog code	Size	Clone	Isotype	Status
FITC	CYT-62LF2	100 tests	SK11	lgG2a	RUO
CD64	Catalog code	Size	Clone	lsotype	Status
PE	CYT-64PE2	100 tests	22	lgG1	RUO
					.
	Catalog code	Size	Clone	lsotype	Status
CD66b FITC	Catalog code CYT-66bF	Size 200 tests	Clone 80H3	lsotype IgG1	Status RUO
FITC	CYT-66bF	200 tests	80H3	lgG1	RUO
FITC CD66c	CYT-66bF Catalog code	200 tests Size	80H3 Clone	IgG1 Isotype	RUO Status
FITC	CYT-66bF	200 tests	80H3	lgG1	RUO
CD66c	CYT-66bF Catalog code	200 tests Size	80H3 Clone	IgG1 Isotype	RUO Status
FITC CD66c PE	CYT-66bF Catalog code CYT-66cPE	200 tests Size 100 tests	80H3 Clone SA66C	IgG1 Isotype IgG1	RUO Status RUO
FITC CD66c PE CyCD79a	CYT-66bF Catalog code CYT-66cPE Catalog code	200 tests Size 100 tests Size	80H3 Clone SA66C Clone	IgG1 Isotype IgG1 Isotype	RUO Status RUO Status
FITC CD66c PE CyCD79a FITC	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4	200 tests Size 100 tests Size 100 tests	80H3 Clone SA66C Clone HM57	IgG1 Isotype IgG1 Isotype IgG1	RUO Status RUO Status RUO
FITC CD66c PE CyCD79a FITC	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4	200 tests Size 100 tests Size 100 tests	80H3 Clone SA66C Clone HM57	IgG1 Isotype IgG1 Isotype IgG1	RUO Status RUO Status RUO
FITC CD66c PE CyCD79a FITC PE	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE	200 tests Size 100 tests Size 100 tests 100 tests	80H3 Clone SA66C Clone HM57 HM57	IgG1 Isotype IgG1 Isotype IgG1 IgG1	RUO Status RUO Status RUO CE/IVD
FITC CD66c PE CyCD79a FITC PE CD81	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code	200 tests Size 100 tests Size 100 tests 100 tests Size	80H3 Clone SA66C Clone HM57 HM57 Clone	IgG1 Isotype IgG1 IgG1 IgG1 Isotype	RUO Status RUO Status RUO CE/IVD Status
FITC CD66c PE CyCD79a FITC PE CD81 FITC APC-C750™	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81F CYT-81AC750	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38	IgG1 Isotype IgG1 IgG1 IgG1 IgG1 IgG1	RUO Status RUO Status RUO CE/IVD Status RUO CE/IVD
FITC CD666C PE CyCD79a FITC OPE CD81 FITC APC-C750™ CD103	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81F CYT-81AC750	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38	IgG1 Isotype IgG1 IgG1 IgG1 IgG1 IgG1 IgG1 IgG1	RUO Status RUO Status CE/IVD Status CE/IVD Status Status
FITC CD666c PE CyCD79a FITC PE CD81 FITC APC-C750™	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81F CYT-81AC750	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38	IgG1 Isotype IgG1 IgG1 IgG1 IgG1 IgG1	RUO Status RUO Status RUO CE/IVD Status RUO CE/IVD
FITC CD666c PE CyCD79a FITC OPE CD81 FITC APC-C750™ CD103 FITC FITC	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81AC750 Catalog code CYT-81AC750	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests Size 200 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38 Clone B-ly7	IgG1IsotypeIgG1IsotypeIgG1IgG1IgG1IgG1IgG1IgG1IgG1IgG1IgG1	RUO Status RUO Status CE/IVD Status RUO CE/IVD Status RUO Status RUO RUO Status
FITC CD666C PE CyCD79a FITC OPE CD81 FITC APC-C750™ CD103 FITC CD117	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81F CYT-81AC750 Catalog code CYT-103F2	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests Size 200 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38 Clone B-ly7	IgG1IsotypeIgG1IsotypeIgG1IgG1IgG1IgG1IgG1IgG1IsotypeIsotypeIsotypeIsotypeIsotype	RUO Status RUO Status CE/IVD Status CE/IVD Status RUO Status Status RUO Status
FITC CD666c PE CyCD79a FITC OPE CD81 FITC APC-C750™ CD103 FITC FITC	CYT-66bF Catalog code CYT-66cPE Catalog code CYT-79aF4 CYT-79aPE Catalog code CYT-81AC750 Catalog code CYT-81AC750	200 tests Size 100 tests Size 100 tests Size 100 tests 50 tests Size 200 tests	80H3 Clone SA66C Clone HM57 HM57 Clone M38 M38 Clone B-ly7	IgG1IsotypeIgG1IsotypeIgG1IgG1IgG1IgG1IgG1IgG1IgG1IgG1IgG1	RUO Status RUO Status CE/IVD Status RUO CE/IVD Status RUO Status RUO RUO Status

CD134	Catalog code	Size	Clone	Isotype	Status
PE	CYT-134PE	100 tests	134-1	lgG1	CE/IVD
CD138	Catalog code	Size	Clone	lsotype	Status
PURE	CYT-138P4	100 tests	B-A38	lgG1	RUO
OC515™	CYT-1380C	100 tests	B-A38	lgG1	CE/IVD
FITC	CYT-138F4	200 tests	B-A38	IgG1	RUO
PE	CYT-138PE4	200 tests	B-A38	lgG1	CE/IVD
PE-Cyanine5	CYT-138C4	200 tests	B-A38	lgG1	RUO
АРС-С750™	CYT-138AC750	50 tests	B-A38	lgG1	CE/IVD
CD180	Catalog code	Size	Clone	Isotype	Status
АРС-С750™	CYT-180AC750	50 tests	G28-8	lgG1	CE/IVD
CD185	Catalog code	Size	Clone	lsotype	Status
APC	CYT-185AP	100 tests	MU5UBEE	lgG2b	RUO
CD200	Catalog code	Size	Clone	lsotype	Status
APC	CYT-200AP	100 tests	OX-104	lgG1	RUO
CD300e	Catalog code	Size	Clone	lsotype	Status
APC	CYT-300eAP	100 tests	UP-H2	lgG1	RUO
Cytokeratine 18	Catalog code	Size	Clone	lsotype	Status
	-	0.25 ml	Ks18.04		
FITC	CYT-CK18F	0.25 mi	KS18.04	lgG1	RUO
FMC7	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-FMC7F	200 tests	FMC7	IgM	RUO
HLA-DR	Catalog code	Size	Clone	lsotype	Status
Pacific Blue™	CYT-DRPBZ	100 tests	L243	lgG2a	RUO
FITC	CYT-DRF2	200 tests	L243	lgG2a	RUO
PE	CYT-DRPE2	200 tests	L243	lgG2a	RUO
HLA-B27	Catalog code	Size	Clone	lsotype	Status
FITC	CYT-HLAIB27F	200 tests	HLA-ABC-m3	lgG2a	RUO

HLA-B7 Catalog cod	de Size	Clone	lsotype	Status
PE CYT-HLAIB7F	PE 200 tests	BB7.1	lgG1	RUO
				.
Kappa Catalog cod		Clone	Isotype	Status
FITC CYT-KAPPF2	2 100 tests	Polyclonal	Polyclonal	CE/IVD
PE CYT-KAPPP	E 100 tests	Polyclonal	Polyclonal	CE/IVD
PerCP-Cyanine5.5 CYT-KAPPC	50 tests	Polyclonal	Polyclonal	RUO
APC CYT-KAPPAI	P 100 tests	Polyclonal	Polyclonal	CE/IVD
APC-C750™ CYT-KAC750) 50 tests	Polyclonal	Polyclonal	RUO
.ambda Catalog cod	de Size	Clone	lsotype	Status
FITC CYT-LAMBR	100 tests	Polyclonal	Polyclonal	CE/IVD
PE CYT-LAMBP	E 100 tests	Polyclonal	Polyclonal	CE/IVD
PerCP-Cyanine5.5 CYT-LAMBDA	AC 50 tests	Polyclonal	Polyclonal	RUO
APC CYT-LAMBA	P 100 tests	Polyclonal	Polyclonal	RUO
APC-C750™ CYT-LAC750) 50 tests	Polyclonal	Polyclonal	CE/IVD
yMPO Catalog cod	de Size	Clone	Isotype	Status
FITC CYT-MPOF3	3 100 tests	2C7	lgG1	CE/IVD
G2 Catalog cod	de Size	Clone	Isotype	Status
PE CYT-NG2PE	100 tests	7.1	lgG1	RUO
CR γδ Catalog cod	de Size	Clone	lsotype	Status
PE-Cyanino 7 CYT-	100 tosts	11F2	lgG1	CE/IVD
TCRGDPECY	7	111 2	1901	
CyTCRβ Catalog cod			la altrica a	Chatar
APC CYT-bF1AP	de Size	Clone	Isotype	Status
		Clone 8A3	lsotype	RUO
nuTdT Catalog cod	100 tests			
nuTdT Catalog coc FITC CYT-TdTF	100 tests	8A3	lgG1	RUO
-	100 tests de Size	8A3 Clone	IgG1 Isotype	RUO Status
-	100 tests de Size 50 tests	8A3 Clone	IgG1 Isotype	RUO Status

Multicolor cocktails

Two-color antibody cocktails

FITC	PE	Catalog code	Size	Clones	lsotypes	Status
CD3	CD4	CYT-3F9-4PE1	100 tests	UCHT-1/RPA-T4	IgG1/IgG1	CE/IVD
CD3	CD8	CYT-3F9-8PE9	100 tests	UCHT-1/UCHT-4	lgG1/lgG2a	CE/IVD
CD3	CD16+CD56	CYT-3F9-16PE7+56PE	100 tests	UCHT-1/3G8+C5.9	lgG1/ lgG1+lgG2b	RUO
CD3	CD19	CYT-3F9-19PE9	100 tests	UCHT-1/SA287	IgG1/IgG1	RUO
CD4	CD8	CYT-4F1-8PE9	100 tests	RPA-T4/UCHT-4	lgG1/lgG2a	CE/IVD
HLA-B27	HLA-B7	CYT-COMB1012	100 tests	HLA-ABC-m3/BB7.1	lgG2a/lgG1	RUO
Kappa	Lambda	CYT-KF2-LPE	50 tests	Polyclonal/Polyclonal	Polyclonal/Polyclonal	CE/IVD
Kappa	Lambda	CYT-KF2-LPE-100	100 tests	Polyclonal/Polyclonal	Polyclonal/Polyclonal	CE/IVD
Lambda	Kappa	CYT-LF-KPE	50 tests	Polyclonal/Polyclonal	Polyclonal/Polyclonal	CE/IVD
Lambda	Kappa	CYT-LF-KPE-100	100 tests	Polyclonal/Polyclonal	Polyclonal/Polyclonal	CE/IVD

Three and four-color antibody cocktails

FITC		PE	PE-Cyanine5	Catalog code	Size	St	tatus
CD3		CD4 CD8		CYT-3F9-4PE1-8C	100 tests	CE	E/IVD
CD3		CD4 CD45		CYT-3F9-4PE1-45C11	100 tests	tests CE/IVD	
CD3	CD1	16+CD56	CD19	CYT-3F9-16PE7+56PE-19C1	100 tests	F	RUO
CD3	CD1	16+CD56	CD45	CYT-3F9-16PE7+56PE-45C11	100 tests	F	RUO
CD4		CD8	CD3	CYT-4F1-8PE9-3C4	100 tests	CE	E/IVD
CD16		CD19	CD3	CYT-16F6-19PE9-3C4	100 tests	F	RUO
Kappa	La	ambda	CD19	CYT-KF2-LPE-19C1	25 tests	F	RUO
FITC	PE	PerCl	P-Cyanine5.5	Catalog code	Size	Status	
Kappa	Lambda		CD19	CYT-KF2-LPE-19C8	25 tests	RUO	
FITC	PE	PerCP-Cy	anine5.5 APC	Catalog code	Size	Status	
CD16	CD64	CD4	45 CD14	CYT-HPN-1	25 tests	RUO	PNH
FITC	PE	PerCP-Cy	anine5.5 APC	Catalog code	Size	Status	
CD4	CD134	CD	3 CD25	CYT-AT4C	100 tests	RUO	Act-T4 Cell™ Kit
FITC	PE	PE-Cya	nine5 APC	Catalog code	Size	Status	
CD45	CD8	CD	4 CD3	CYT-45F6-8PE9-4C1-3AP10	100 tests	RUO	

Erythrocyte lysing solutions

Quicklysis™

Quicklysis™ is an erythrocyte lyse-non-wash solution without fixatives. It can be used in whole blood or bone marrow samples after immunofluorescence staining of cells and requires no subsequent washing-centrifugation steps, reducing cell loses, processing time and sample handling.

Description	Format	Size	Catalog code	Status
Quicklysis™	Ready to use 500 mL	250 tests	CYT-QL-1	CE/IVD

BulkLysis™

BulkLysis™ is a fixative-free erythrocyte lysing solution recommended for osmotic lysis of erythrocytes before immunofluorescence staining of peripheral blood or bone marrow aspirate samples.

BulkLysis™ protocol allows greater sensitivity in flow cytometry studies where a higher cell count is required. BulkLysis™ is included in the following Cytognos' kits: BCP-ALL MRD, CTPC, MM MRD, PIDOT and IgH-isotype panel - Subclasses.

BulkLysis™ is recommended for samples with low cell counts or to detect small/rare populations.

Description	Format	Size	Catalog code	Status
BulkLysis™	100 ml (10x)	20 tests	CYT-BL	CE/IVD*

* RUO format also available

Quicklysis¹

BulkLysis"

CE

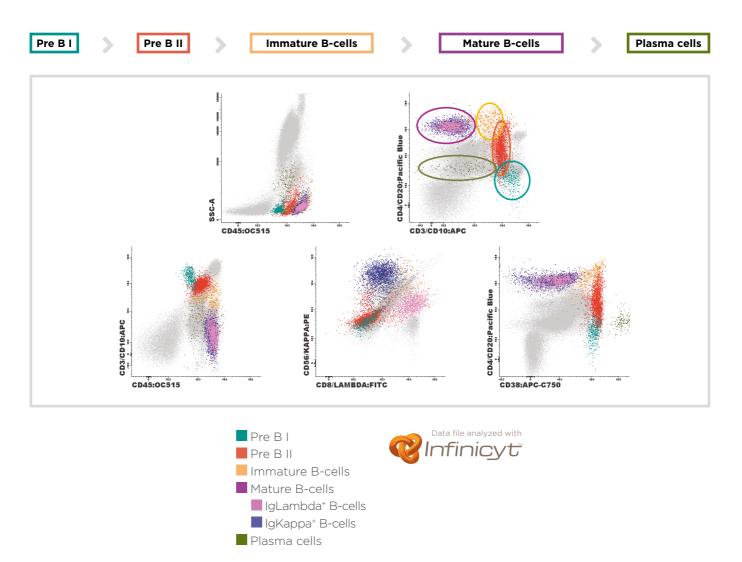
IVD

CE

IVD

Cocktails for lymphocyte subset studies

Cytognos offers different antibody cocktails designed to determine, in peripheral blood, bone marrow and other fluids, the major lymphocyte subpopulations. These cocktails are offered in liquid or lyophilized formats.



B-cell stages analysis in a bone marrow sample stained with Lymphoclonal™-12 cocktail.

	PATENTED!	
Lymphogram™	CE IVD	Lymphogram™

Lymphogram™ is a 3-color mixture of monoclonal antibodies with carefully selected fluorescence intensities designed to simultaneously determine, in peripheral blood, bone marrow and other fluids, the major lymphocyte subpopulations.

FITC	PE		PE-Cyanine5	
CD8 + CD19	CD3 + CD56		CD4	
Description	Size	Catalog code	Status	
Lymphogram™	50 tests	CYT-CO01	CE/IVD	

Lymphoclonal™

Lymphoclonal[™] is a 4-color antibody mixture aimed to study lymphocyte subsets and determine clonality of B-cells in peripheral blood, bone marrow and other body fluids.

Lymphoclonal[™] is a rapid, effective and reliable combination for initial screening of lymphocyte subsets.

FITC	PE	PerCP-Cyanine5.5	APC
CD8 + SmlgLambda	CD56 + SmlgKappa	CD4 + CD19	CD3
Description	Size	Catalog code	Status
Lymphoclonal™	20 tests	CYT-LC	CE/IVD

Lymphoclonal[™]-C

Lymphoclonal™-C antibody mixture contains the fluorochromes PE-Cyanine5 and PE-Cyanine7, instead of PerCP-Cyanine5.5 and APC, for its use with Beckman Coulter[®] standard configurations.

FITC	PE	PE-Cyanine5	PE-Cyanine7
CD8 + SmlgLambda	CD56 + SmlgKappa	CD4 + CD19	CD3

Description	Size	Catalog code	Status
Lymphoclonal™-C	20 tests	CYT-LC-C	RUO

Beckman Coulter[®] is a registered trademark of Beckman Coulter.



Lymphoclonal™-9 is a 6-color antibody mixture designed to simultaneously determine, in peripheral blood, bone marrow and other fluids, the major lymphocyte subpopulations.

This cocktail includes CD45 and CD20 antibodies for improved lymphocyte population identification and B-cell characterization respectively. The lyophilized format provides a more stable mixture.

FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750 [™]
CD8 + SmlgLambda	CD56 + SmlgKappa	CD4 + CD19	CD3	CD20	CD45
Description	Format	Size	Catalog co	ode	Status
Lymphoclonal™-9	Lyophilized	25 tests	CYT-LC	9	CE/IVD



Lymphoclonal

CE

IVD

Lymphoclonal[™]-12



Lymphoclonal[™]-12 is an 8-color antibody mixture for screening of B-cell lymphoma within a variety of clinical samples when the pre-test probability is low or unknown. This is particularly useful for low cellularity specimens such as fine needle aspirate, core biopsy, pleural, ascitic and cerebral spinal fluid (CSF) where limited sample is available.

This combination also includes CD5 and CD10 antibodies for complete assessment of normal B-cell maturation and subclassification of B-cell lymphoma; and CD38 antibody for the identification of other leukocyte populations (e.g. plasma cells). The lyophilized format provides a more stable mixture.

Pacific Blue™	OC515™	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750 ™
CD4 + CD20	CD45	CD8 + SmlgLambda	CD56 + SmlgKappa	CD5	CD19	CD3 + CD10	CD38

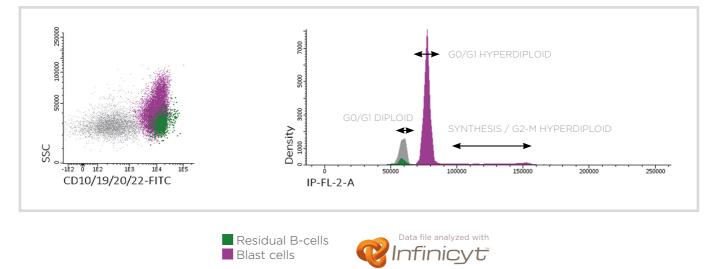
Description	Format	Size	Catalog code	Status
Lymphoclonal™-12	Lyophilized	25 tests	CYT-LC12	CE/IVD

DNA content studies and cell cycle analysis



Cycloscope™

Cycloscope™ is an exclusive product line for cell DNA content studies by flow cytometry.



B-ALL patient sample stained with Cycloscope™ B-ALL kit.

Cycloscope[™] kits include a specific monoclonal antibody pool to identify neoplastic cells and a ready-to-use DNA labeling solution.

- Cycloscope[™] MM: useful for the evaluation of plasma cell DNA content in patient samples diagnosed with multiple myeloma (MM) or monoclonal gammopathies of undetermined significance.
- Cycloscope[™] B-ALL: suitable for the evaluation of neoplastic B-cell precursor DNA content in patient samples diagnosed with B-lineage acute lymphoblastic leukemia (B-ALL).
- Cycloscope[™] NHL: designed to determine neoplastic B-cell DNA content in patient samples diagnosed with B-lineage Non-Hodgkin lymphoma (B-NHL) and other B-cell chronic lymphoproliferative diseases (B-CLPD).
- Cycloscope[™] Reagent: ready-to-use DNA labeling solution (propidium iodide, permeabilization reagents and RNase) and an erythrocyte lysing solution.
- **DNA Labeling Solution:** ready-to-use solution containing propidium iodide, permeabilization reagents and RNase.

Product	Mix of purified antibodies	FITC-secondary antibody	Erythrocyte lysis solution	DNA labeling solution	Size	Catalog code	Status
Cycloscope™ MM	CD38 + CD138	\checkmark	\checkmark	\checkmark	20 tests	CYT-CS-MM	RUO
Cycloscope™ B-ALL	CD10 + CD19 + CD20 + CD22	\checkmark	\checkmark	\checkmark	20 tests	CYT-CS-BALL	RUO
Cycloscope™ NHL	CD19 + CD20 + CD22 + CD23	\checkmark	\checkmark	\checkmark	20 tests	CYT-CS-NHL	RUO
Cycloscope™ Reagent	×	×	\checkmark	\checkmark	50 tests	CYT-CS-R-50	RUO
DNA labeling Solution	×	×	×	\checkmark	25 tests	CYT-PIR-25	RUO

Absolute counting systems

PATENTED!

CE

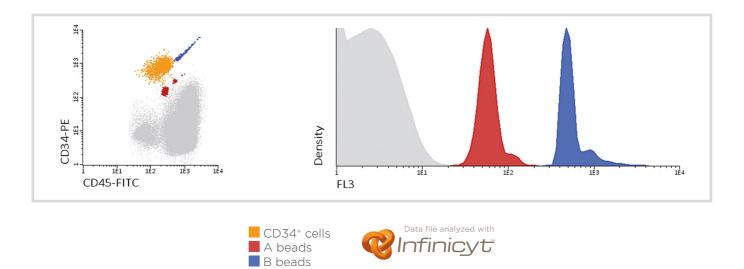
IVD

Perfect-Count[™] Microspheres

Perfect-Count[™] Microspheres

Perfect-Count™ Microspheres is a microbead-based single-platform system for absolute count, which can be used in combination with antibodies conjugated with different fluorochromes. Its unique internal quality control contains two bead-types to assure the accuracy of the cell subpopulation absolute count.

Description	Size	Catalog code	Status
Perfect-Count [™] Microspheres	50 tests	CYT-PCM-50	CE/IVD
Perfect-Count [™] Microspheres	100 tests	CYT-PCM-100	CE/IVD



CD34+ cell count with Perfect-Count™ Microspheres.



LeucoFinder™ is an efficient single-platform method for residual white blood cells (rWBC) enumeration in leukoreduced blood products.

LeucoFinder[™] combines DNA labeling of residual leukocytes with the use of **Perfect-Count[™] Microspheres** as an absolute count system.

Description	Size	Catalog code	Status
LeucoFinder™	50 tests	CYT-LF-50	CE/IVD

NEXT GENERATION FLOWTM

Next Generation Flow™ (NGF) is based on the standardization of every step of the process from sample preparation to expert-guided automated reporting. Cytognos, in collaboration with EuroFlow™, offers a complete and scientific-based solution to cover all the needs of clinical laboratory including the support of our highly specialized technical team:

- Setting up and technical implementation of the EuroFlow™ SOPs.
- Staining of samples using the NGF product line.
- Acquisition of samples in compatible cytometers (e.g. Omnicyt™).
- Automated data analysis and reporting using Infinicyt™.

Next Generation Flow[™] has emerged in recent years as a **solution** to overcome the limitations of 1st generation (conventional) flow cytometry and also, as a complement to molecular and imaging methodologies.

What is the NGF workflow?

The NGF workflow addresses the most common clinical questions, including rare disease entities. This workflow consists on a sequential use of **screening** tubes followed by multi-tube panels for the **diagnosis and classification** of each disease, and finally panels for **monitoring** patients after treatment. Following the EuroFlow[™] SOPs is paramount to assure full technical standardization in 3-laser based cytometers (e.g. Omnicyt[™]).

	Hemato-oncology laboratory	Immunology laboratory	Clinical Trials
Screening / Orientation	\checkmark	\checkmark	
Diagnosis / Classification	\checkmark	\checkmark	
Monitoring	\checkmark	\checkmark	\checkmark

Next Generation Flow[™] for Hemato-oncology

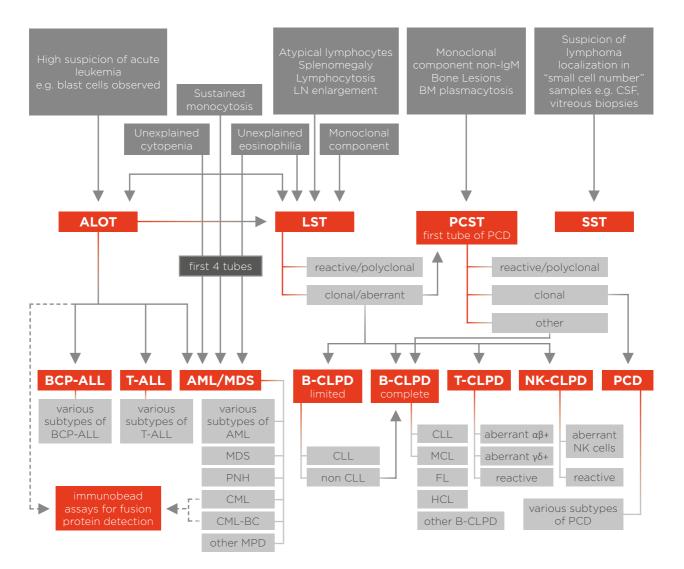
NGF immunophenotyping protocols for hemato-oncology include 8-color tubes, allowing **precise characterization** of normal, reactive and neoplastic leukocyte populations. In addition, the combination of multiple antibodies in the same fluorochrome position allows the analysis of a larger number of antibodies in a single tube.

Each marker combination was designed to answer multiple **clinical questions**, through the identification, enumeration and characterization of relevant cell populations. As target populations are not known in advance, an initial screening step based on a limited number of antibodies is crucial to direct to the differential identification of all relevant cell subsets of a sample, thereby improving **laboratory efficiency**.

Pipetting large number of antibodies is time-consuming and prone to operational mistakes. In contrast, the use of **lyophilized tubes** results in reduced staining variability between different samples due to prolonged stability of the reagent mixes. Therefore, laboratory efficiency and quality are improved by using **ready-to-use reagents**.

Based on the results of the initial screening step, further studies of suspected cells are preformed using the most appropriated characterization panel which contain several common (core) markers for **reliable** and **reproducible identification** between tubes.

The EuroFlow™ NGF diagnostic algorithm has several entries based on the most frequent clinical questions:



Optimal results can only be obtained by following the **EuroFlow™** SOPs in a 3-laser instrument (e.g. **Omnicyt™**) and performing data analysis using standardized templates and reference Databases included in the **Infinicyt™** Software.

Chronic lymphoproliferative disorders

PATENTED!

EuroFlow

CE IVD LST

Screening/Orientation

Lymphoid Screening Tube

The LST kit designed by the EuroFlow[™] consortium contains a single 8-color, 12-markers, combination for the discrimination between normal and abnormal lymphoid cells, based on the detection of aberrant immunophenotypic characteristics in mature B-, T- and NK-cells.

Descriptio		Format S		ze	Catalog code		Status
LST		Lyophilized	25 t	ests	CYT-LST		CE/IVD
Pacific Blue™	OC515™	FITC	PE	PerCP-Cya- nine5.5	PE-Cyanine7	APC	APC-C750™
CD20 + CD4	CD45	CD8 + SmlgLambda	CD56 + SmlgKappa	CD5	CD19 + TCRγδ	SmCD3	CD38

Kit composition (auxiliary reagents included)						
Compensation tubes (lyophilized monotest tube)						
OC515 [™] -CD45	25 free EuroFlow™ Database Accesses to be					
PerCP-Cyanine5.5-CD5	used in Infinicyt™ Software.					
PE-Cyanine7-CD19 +TCRγδ						
APC-C750 [™] -CD38						
	Compensation tubes (lyophilized monotest tube) OC515 [™] -CD45 PerCP-Cyanine5.5-CD5 PE-Cyanine7-CD19 +TCRγδ					

	PATENTE	SET	
Small Sample Tube	EuroFlow	SST	

The SST kit is an adapted version of the LST combination designed by EuroFlow[™] consortium as a powerful diagnostic tool for the evaluation of CSF, vitreous and other low-volume samples with a clinical suspicion of primary lymphoma. This 8-color, 11-markers, combination is optimized for the detection and identification of B-, T-, NK-cells and monocytes.

Description		Format	Si	ze	Catalog code		Status
SST		Lyophilized	25 t	ests	CYT-SST		CE/IVD
Pacific Blue™	OC515™	FITC	PE	PerCP-Cya- nine5.5	PE-Cyanine7	APC	APC-C750™
	00313			nine5.5	TE Cydrinic/		AI C C/30
CD20	CD45	CD8 + SmlgLambda	CD56 + SmlgKappa	CD4	CD19	SmCD3 + CD14	CD38

Kit composition (auxiliary reagents included)					
Lyophilized tubes Compensation tubes (lyophilized monotest tube					
	OC515™-CD45				
Antibodies against surface antigens	PerCP-Cyanine5.5-CD4				
(5 vials, 5 tests per vial)	PE-Cyanine7-CD19				
	APC-C750™-CD38				

Characterization/Classification

Combinations and single antibodies

The design and development of the standardized 8-color antibody panels, to classify each B-CLPD, T-CLPD and NK-CLPD entity, comprised on the selection of core markers and tube-specific characterization markers for the identification and characterization of all B-, T-, and NK-cell populations of interest (for more information consult single color antibodies section).

Core combination for B-CLPD panel

This lyophilized combination of core markers is suitable to identify the population of study in all tubes of the B-CLPD panel.

Pacific Blue™	OC515™	PE-Cyanine7	Catalog code	Format	Size	Status
CD20	CD45	CD19	CYT-MBC-CORE	Lyophilized	40 tests	CE/IVD

Kit composition (auxiliary reagents included)				
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)			
Antibodies against surface antigens	OC515 [™] -CD45			
(2 vials, 20 tests per vial)	PE-Cyanine7-CD19			

SLPC

FITC	PE	Catalog code	Format	Size	Status
CD8 + SmlgLambda	CD56 + SmlgKappa	CYT-SLPC-25	Liquid	25 tests	RUO
CD8 + SmlgLambda	CD56 + SmlgKappa	CYT-SLPC-50	Liquid	50 tests	RUO

SLPC-4

FITC	PE	PerCP-Cyanine5.5	Catalog code	Format	Size	Status
CD8 + SmlgLambda	CD56 + SmlgKappa	CD4	CYT-SLPC4-25	Liquid	25 tests	RUO
CD8 + SmlgLambda	CD56 + SmlgKappa	CD4	CYT-SLPC4-50	Liquid	50 tests	RUO

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Acute leukemia

PATENTED!

EuroFlow

CE IVD ALOT

B-ALL T-ALL

AML/MDS

EuroFlow

Screening/Orientation

Acute Leukemia Orientation Tube

The ALOT kit designed by the EuroFlow™ consortium contains a single 8-color, 8 markers, combination for the initial assessment of the nature of immature populations in samples with suspicion of acute leukemia.

Descripti	tion Format		Siz	ze	Catalog code		Status	
ALOT		Lyoph	Lyophilized		zed 25 tests CYT-ALOT		CE/IVD	
Pacific Blue™	OC515™	FITC	PE	PerCP-Cyan	nine5.5	PE-Cyanine7	APC	APC-C750™
CyCD3	CD45	CyMPO	CyCD79a	CD34		CD19	CD7	SmCD3
		Ki	it compos	sition (auxi	iliary reag	gents included)		
Lyophiliz	ed tubes		ompensation philized mono			IX&PERM®: Cell		
Antibodies against surface antigens (5 vials, 5 tests per vial)		OC515 [™] -CD45		D45	Peri * In coo	meabilization Kit. peration with Nordic-	Da	25 free EuroFlow™ atabase Accesses to be
		Per	CP-Cyanine !	5.5-CD34		BV, The Netherlands. RM® is a trademark of		ed in Infinicyt™ Software.
	es against		PE-Cyanine7	-CD19		ordic-MUbio BV.		
cytoplasmic antigens (5 vials, 5 tests per vial)		A	APC-C750 [™] -SmCD3					

Characterization/Classification

Combinations and single antibodies

The design and development of the standardized 8-color antibody panels to classify each B-ALL, T-ALL and AML/ MDS entities included the selection of core markers and tube-specific characterization markers for the identification and characterization of all populations of interest (for more information see single color antibody section).

Core combination for BCP-ALL panel

This lyophilized combination of core markers is suitable to identify the population of study in all tubes of the BCP-ALL panel.

OC515™	PerCP-Cyanine5.5	PE-Cyanine7	Catalog code	Format	Size	Status		
CD45	CD34	CD19	CYT-PBC-CORE	Lyophilized	20 tests	CE/IVD		
	Kit composition (auxiliary reagents included)							
	Lyophilized tube	s	Compei	nsation tubes (lyc	ophilized monot	est tube)		
				OC515™-CD45				
	Antibodies against surface antigens (5 vials, 4 tests per vial)			PerCP-Cyani	ne 5.5-CD34			
	(o vidio, + testo per		PE-Cyanine7-CD19					



Monitoring

B-Cell Precursor Acute Lymphoblastic Leukemia MRD kit



Minimal residual disease (MRD) is one of the most significant prognostic factors in ALL independent of patient age, cell origin, or genetic subtype.

The BCP-ALL panel for MRD, designed by EuroFlow[™], comprises a fully-standardized 8-color antibody panel and laboratory procedure designed to reach a sensitivity of ≤10⁻⁵, comparable to real-time quantitative polymerase chain reaction (RQ-PCR)-based MRD detection. This kit allows measuring MRD and discriminating between normal and malignant BCP cells in 99% of studied BCP-ALL patients.

Descri	iption	Fo	Format		Size Catalog code		S	tatus
BCP-ALL N	CP-ALL MRD panel		ohilized 20 tests		CYT-BCP-ALL-MRD		С	E/IVD
BCP-ALL MRD	Pacific Blue™	OC515™	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750™
Tube 1	CD20	CD45	CD81	CD66c+CD123	CD34	CD19	CD10	CD38
Tube 2	CD20	CD45	CD81	CD73+CD304	CD34	CD19	CD10	CD38

Kit composi	Kit composition (auxiliary reagents included)							
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)							
Antibodies against surface antigens	OC515 [™] -CD45	BulkLysis™: Fixative-free						
Tube 1 (4 vials, 5 tests per vial)	PerCP-Cyanine5.5-CD34	erythrocyte lysing solution						
Antibodies against surface antigens	PE-Cyanine7-CD19							
Tube 2 (4 vials, 5 tests per vial)	APC-C750 [™] -CD38							

Plasma cell dyscrasias

Screening/Orientation

Plasma Cell Screening Tube

PATENTED! PCST EuroFlow

The PCST kit designed by the EuroFlow™ consortium contains a combination of 8 antibodies for identification, discrimination and enumeration of co-existing normal/reactive and aberrant plasma cell populations.

Descripti	Description		nat	Size	Catalog code		Status
PCST		Lyophilized		25 tests	CYT-PCST		CE/IVD
Pacific Blue™	OC515™	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750™
CD45	CD138	CD38	CD56	β2-microglobulin	CD19	CylgKappa	CylgLambda

Kit composition (auxiliary reagents included)								
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)	FIX&PERM®: Cell Permeabilization						
Antibodies against surface antigens	OC515 [™] -CD45	Kit . * In cooperation with Nordic-MUbio						
(5 vials, 5 tests per vial)	PerCP-Cyanine5.5-β2-microglobulin	BV, The Netherlands. FIX&PERM® is a						
Antibodies against cytoplasmic antigens	PE-Cyanine7-CD19	trademark of Nordic-MUbio BV.						
(5 vials, 5 tests per vial)	APC-C750 [™] -CylgLambda							

Monitoring

The EuroFlow[™] methodology to monitor Circulating Tumor Plasma Cells (CTPC) and Multiple Myeloma MRD is a 2-tube, 8-color approach that provides an important quality control of PC identification due to its replicate consistency and precision.

PATENTED!

EuroFlow

СТРС

Desc	Description		ormat	Size	Catalog code		Status
СТРС	CTPC panel		philized	20 tests	CYT-0	СТРС	RUO
Drop-in*	Drop-in*	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750™
CD138	CD27	CD38	CD56	CD45	CD19	CD117	CD81
CD138	CD27	CD38	CD56	CD45	CD19	CylgKappa	CylgLambda

*The CD138-BV421 and CD27-BV510 antibodies selected by EuroFlow™ for the violet laser are not included in the kit. These must be therefore added as "drop-in" antibodies.

	Kit composition (a	auxiliary reage	nts included)	
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)			
Antibodies against surface antigens - Tube 1 (4 vials, 5 tests per vial) Antibodies against surface antigens - Tube 2 (4 vials, 5 tests per vial) Antibodies against cytoplasmic antigens - Tube 2 (4 vials, 5 tests per vial)	PerCP-Cyanine5.5-CD45 PE-Cyanine7-CD19 APC-C750 [™] -CD81 APC-C750 [™] -CylgLambda	BulkLysis™: Fixative-free erythrocyte lysing solution.	FIX&PERM®: Cell Permeabilization Kit. * In cooperation with Nordic-MUbio BV, The Netherlands. FIX&PERM® is a trademark of Nordic- MUbio BV.	25 free EuroFlow™ Database Accesses to be used in Infinicyt™ Software.

	PATENTED!	MM MRD
Multiple Myeloma MRD kit	EuroFlow	

Description	Format	Size	Catalog code	Status
MM MRD panel	Lyophilized	20 tests	CYT-MM-MRD-CE-IVD	CE/IVD*

*RUO kit also available.

Drop-in*	Drop-in*	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750™
CD138	CD27	CD38	CD56	CD45	CD19	CD117	CD81
CD138	CD27	CD38	CD56	CD45	CD19	CylgKappa	CylgLambda

*The CD138-BV421 and CD27-BV510 antibodies selected by EuroFlow™ for the violet laser are not included in the kit. These must be therefore added as "drop-in" antibodies.

Kit composition (auxiliary reagents included)					
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)				
Antibodies against surface antigens - Tube 1 (4 vials, 5 tests per vial) Antibodies against surface antigens - Tube 2 (4 vials, 5 tests per vial) Antibodies against cytoplasmic antigens - Tube 2 (4 vials, 5 tests per vial)	PerCP-Cyanine5.5-CD45 PE-Cyanine7-CD19 APC-C750™-CD81 APC-C750™-CylgLambda	BulkLysis™: Fixative-free erythrocyte lysing solution.	FIX&PERM®: Cell Permeabilization Kit. * In cooperation with Nordic-MUbio BV, The Netherlands. FIX&PERM® is a trademark of Nordic- MUbio BV.	25 free EuroFlow™ Database Accesses to be used in Infinicyt™ Software.	

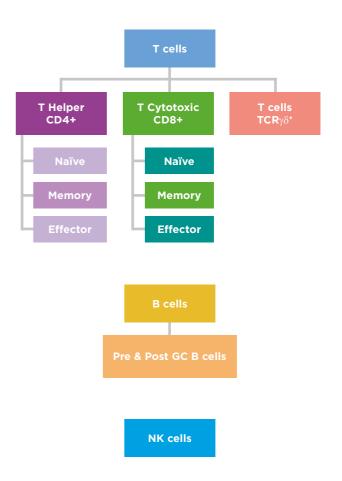
Next Generation Flow[™] for Immunology

Due to the success of the standardization in hematooncology field, the EuroFlow[™] consortium has expanded their activities to the immunology field. Although quite recent, the NGF methodology for primary immunodeficiencies (PID) has already made available **standardized protocols, panels** and **reference Databases** (included in the Infinicyt[™] Software).

As defined by the ESID registry, the complete diagnosis and classification of PIDs is based on a stepwise screening step and subsequent characterization for numerical alterations in lymphocyte T, B and NK subpopulations, absence of specific proteins and functional assays (www.esid.org).

EuroFlow[™] objective was to develop a **universal and highly sensitive** method to identify all lymphoid PIDs (around 70% of all diagnosed PIDs) which could guide and help prioritize further diagnosis using other techniques (e.g. genetic analysis).

This method consists on the application of the EuroFlow[™] methodology (standardized panel, SOPs, etc.) to create a **database** in the Infinicyt[™] Software that describes the **frequency and absolute count** of all cell populations that can be identified with the PIDOT tube.



Primary immunodeficiencies

Screening/Orientation

	PATENTED!		
Primary Immunodeficiency Orientation Tube	EuroFlow	PIDOT	

The PID orientation tube (PIDOT) designed by the EuroFlow™ consortium contains a combination of lineage specific markers for the identification of B-, T- and NK-cells.

Desc	ription	Forma	t	Size	Catalog code		Status
PID Orien	tation tube	Lyophiliz	zed	20 tests	CYT-PIDOT	C	E/IVD*
*RUO kit also	available.						
Drop-in*	Drop-in*	FITC	PE	PerCP-Cyanine5.5	PE-Cyanine7	APC	APC-C750™
CD27	CD45RA	CD8+SmlgD	CD16+CD56	CD4+SmlgM	CD19+TCRγδ	CD3	CD45

*The CD27-BV421 and CD45RA-BV510 antibodies selected by EuroFlow™ for the violet laser are not included in the kit. These must therefore be added as "drop-in" antibodies.

Kit composition (auxiliary reagents included)						
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)		25 free EuroFlow™ Database			
Antibodies against	PerCP-Cyanine5.5-CD4+SmlgM	BulkLysis™: Fixative-free erythrocyte lysing solution.	Accesses to be used in Infinicyt™			
surface antigens (4 vials, 5 tests per	PE-Cyanine7-CD19+TCRγδ		Software.			
vial)	APC-C750 [™] -CD45					

Characterization/Classification

Combinations of immunoglobulins

PATENTED! IgH-isotype panel -Subclasses EuroFlow

> lg Subclasses

The combined quantitation of IgG and IgA subclasses in B-cell disorders can be used in the screening of antibodymediated immune function, which is especially useful in evaluating defective antibody production in patients with recurrent bacterial infections before initiating therapy.

IgH-isotype panel - Subclasses (1 tube)

FITC	PE	PerCP-Cyanine5.5	APC	Cataloge code	Format	Size	Status
lgG2 lgG3	lgG1 lgG2	IgA1 IgA2	lgA1 lgG4	CYT-IGS-1	Lyophilized	20 tests	RUO

Kit composition (auxiliary reagents included)				
Lyophilized tubes	Compensation tubes (lyophilized monotest tube)	BulkLysis™: Fixative-free		
Antibodies against surface antigens (4 vials, 5 tests per vial)	PerCP-Cyanine5.5-IgA1+IgA2	erythrocyte lysing solution.		

IgH-isotype panel - Subclasses (2 tubes)

	FITC	PE	Cataloge code	Format	Size	Status
Tube 1	lgG2 lgG4	lgG1 IgG2	CYT-IGS-2	Liquid	20 tests	RUO
Tube 2	lgA1 IgG3	lgA1 IgA2	CT1-103-2	Elquid	20 lesis	RUU

Kit composition (auxiliary reagents included)			
Liquid tubes			
Tube 1: Antibodies against surface antigens (1 vial, 20 tests)	BulkLysis™: Fixative-free erythrocyte lysing solution.		
Tube 2: Antibodies against surface antigens (1 vial, 20 tests)			

Ig Subclasses

Ig Subclasses can be used to further study the B-cell compartment in primary immunodeficiencies studies.

Marker	Fluorochrome	Catalog code	Size	Status
lgA1	FITC	CYT-IGA1F	25 tests	RUO
lgA1	PE	CYT-IGA1PE	25 tests	RUO
lgA1	PerCP-Cyanine5.5	CYT-IGA1C	25 tests	RUO
lgA1	APC	CYT-IGA1AP	25 tests	RUO
lgA2	PE	CYT-IGA2PE	25 tests	RUO
lgA2	PerCP-Cyanine5.5	CYT-IGA2C2	25 tests	RUO
lgD	FITC	CYT-IGDF	25 tests	RUO
lgD	PerCP-Cyanine5.5	CYT-IGDC	25 tests	RUO
lgG1	FITC	CYT-IGG1F	25 tests	RUO
lgG1	PE	CYT-IGG1PE	25 tests	RUO
lgG2	FITC	CYT-IGG2F	25 tests	RUO
lgG2	PE	CYT-IGG2PE	25 tests	RUO
lgG3	FITC	CYT-IGG3F	25 tests	RUO
lgG4	FITC	CYT-IGG4F	25 tests	RUO
lgG4	APC	CYT-IGG4AP	25 tests	RUO
lgM	PerCP-Cyanine5.5	CYT-IGMC2	25 tests	RUO
lgM	APC	CYT-IGMAP	25 tests	RUO

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Next Generation Flow[™] for Clinical Trials

New and effective therapies, targeting antibodies and blocking molecules, are being developed to further improve treatment outcome while increasing quality of life.

For this particular setting, **MRD** emerges as a tool to evaluate patient's response to treatment since it measures tumor burden and can be used as an **efficacy-response** and **prognosis biomarker**.

Cytognos-EuroFlow™ NGF methodology complies with all considerations of clinical trials for cell-based assays as defined by FDA (2020) and EMA (2018 Draft):

- The number of events to be collected is pre-specified in each assay to reach the required **sensitivity**.
- **Consistent antibody panels** are defined for each application.
- Sample collection, stability and time for processing are pre-established to reduce variation in results.
- Analysis templates and reference Databases guarantee reproducibility of analysis between sites and operators.
- Specific antibody expression alterations caused by therapy are overcome by using antibodies with multiepitope-specificity in the evaluation panels (e.g. CD38 multi-epitope).
- Potential regeneration of bone marrow samples is assessed since the complete immunophenotype of the sample is evaluated.
- Hemodilution is taken into account when reporting results to assure reliable reporting.

Cytognos Technical Support team have the required experience, know-how and training resources to achieve successful implementation of the NGF methodology independently of the site (public and private hospitals, research facilities or other). The following points are addressed during technical support:

- SOPs for cytometer set-up: Instrument standardization.
- SOPs and stable lyophilized kits for sample processing: Inter- and intra-laboratory reproducibility.
- Data analysis: Reference Databases with standardized reports bring a common language to the different sites.

Technical support is available via email **(support@cytognos.com)**, webinars or onsite visits. Cytognos provides a variety of solutions and products specifically aimed at the establishment of monitoring techniques for clinical trials. Feel free to contact us to know more about our available monitoring solutions:

Solution	Monitoring
BCP-ALL MRD	BCP-Acute Lymphocytic Leukemia
MM MRD/CTPC	Plasma cell dyscrasias
PIDOT	Immune reconstitution

Standardized and validated methodologies such as NGF can ensure that results obtained in different laboratories are consistent and improve the accuracy, precision, specificity and sensitivity in all evaluation sites.

FLOW CYTOMETER



OMNICYT[™]

Omnicyt[™] benchtop analyzer with innovative features is the perfect complement to work with all kind of hematological and immunological samples following EuroFlow[™] protocols.

CE

IVD

The use of flat-top laser beams guarantees the most reproducible and accurate fluorescence measurement and, at the same time, reduces the frequency of system calibration. Its acoustic focusing and volumetric non-pressurized acquisition system allows for the acquisition of up to 20 million events per file without losing relevant information by electronic abort.



Optical system

Standard configuration: 3 lasers and 13 parameters (11 fluorescence channels, FSC and SSC).

Violet (405 nm) Blue (488 nm) Red (637 nm)

As upgrade, a fourth yellow laser (561 nm) with 16 parameters is available.

Omnicyt[™] uses **flat-top lasers** with an intensity profile that allows a much wider window of alignment.

Simmer mode: lasers are only switched on during acquisition. This prolongs laser lifetime by 10x.

Fluidic system

The acoustic focusing allows data quality not to be compromised by the use of higher imput rates since it uncouples the cell alignment from the sheath flow.

Volumetric cell counts for all samples.

Sample analysis volume: from 20 µL to 4 mL sample volumes and possibility to recover unused sample.

Choose between sample input flow rates: 12.5, 25, 100, 200, 500, and 1,000 µL/min.

Data acquisition speed up to 35,000 events/second.

Non-pressurized fluidic system which allows the use of **different tube formats** from 17x100 mm to 8.5x45 mm.

Omnicyt[™] is equipped with small tanks stored within the instrument.

Electronic system

Omnicyt[™] software is designed to provide powerful data acquisition and analysis tools using an intuitive and **userfriendly interface**.

- Generates file formats FCS 3.0 and FCS 3.1.
- Large data sets can be saved with up to 20 million events with all parameters.
- No abort rate: all the events, including aggregates, can be saved.

Quality control and instrument maintenance

Levey-Jennings and history reports of baseline and performance tests are available.

Fully compatible with EuroFlow™ methodology: SOPs and Databases.

Automated maintenance protocols with software guidance: startup, shutdown, debubble procedure, deep clean and regular decontamination of the system.

Other features

Instrument size (H \times W \times D): 40 x 58 x 43 cm including fluid tanks. Weight: 29 Kg.

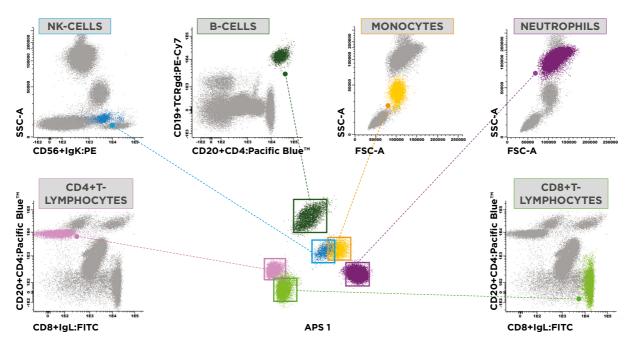
Product	Catalog code	Format
Omnicyt™ Flow Cytometer (VBR)	CYT-OMNI	NA
Omnicyt [™] Performance Tracking Beads	CYT-OMNI-PTB	3 mL
Omnicyt [™] Focusing Fluid	CYT-OMNI-FF	10 L
Omnicyt [™] Wash Solution	CYT-OMNI-WS	250 mL
Omnicyt [™] Shutdown Solution	CYT-OMNI-SD	250 mL
Omnicyt [™] Debubble Solution	CYT-OMNI-DBS	50 mL

SOFTWARE

INFINICYTTM

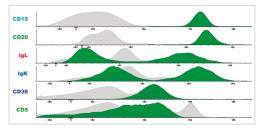
Infinicyt[™] Software includes **innovative tools** for analysis, integration and interpretation that make your flow cytometry data analysis multivariate, standard, efficient, reproducible and sensitive.

• The **Automatic Population Separator** (APS), based on Principal Component Analysis, uses the information from all the parameters included in the file providing the best cell cluster separation, and highlights the markers that are most significant for this separation.

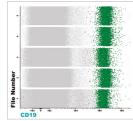


The diagrams above represent a sample stained with Cytognos LST Kit. The APS in the centre displays cell cluster separation considering all parameters at the same time. Dotplots with relevant markers demonstrate that clusters on the APS are biologically defined populations..

- **Multiparametric diagrams** for the representation of several parameters and populations at the same time.
- The **File Merge** tool allows the integration of several files that can be globally analyzed at the same time.
- The inclusion of common markers at the same fluorochrome positions in multi-tube panels increments the reproducibility of the gating strategy used to identify target cell populations for phenotypic characterization.

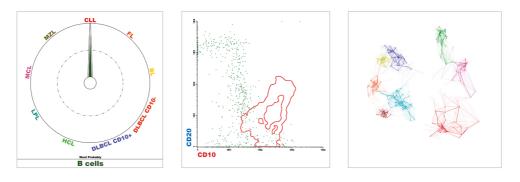


EuroFlow



Infinicyt[™] supports FCS files generated in all flow cytometers that follow the Flow Cytometry Data File Standards (2.0, 3.0, 3.1).

- INFINICYT™
- Automated software tools for comparison of samples with the **EuroFlow™ Databases** (EuroFlow™ SOPs for sample preparation, instrument set-up and antibody panels are required).
- Create your own classification Databases and use the **Compass tool** for sample classification (standard conditions for sample preparation instrument set-up and antibody panels are required).
- Save **Reference Images** in the profile for disease monitoring, identification of maturation patterns, etc.
- **Clustering tool** automatically groups all the events into clusters according to their relative distance in the multidimensional space.
- Results can be linked to your Laboratory Information System (LIS).

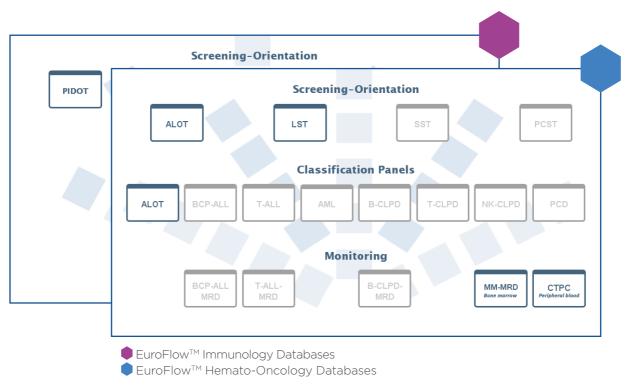


- Automated analysis tools included in Infinicyt[™] make the analysis user-independent providing objective and reproducible results.
- Infinicyt[™] includes **EuroFlow[™] Profiles** with the appropriate population tree and diagrams facilitating the analysis of samples stained with EuroFlow[™] panels.
- Analysis strategies stored in the profile make the analysis more reproducible.
- Infinicyt[™] includes **robust statistics parameters** that are less influenced by outlying events: median absolute deviation (MAD), robust standard deviation (rSD), robust coefficient of variation (rCV%).
- Optimal performance when **processing large files** (essential in MRD studies).
- Limit of Detection and Lower Limit of Quantification are automatically calculated in the **Automatic Report** in order to provide an objective result following current reporting guidelines.

Description	Reference
Infinicyt™ Basic Licence	CYT-INFINICYT-BASIC
Infinicyt™ Advanced Licence	CYT-INFINICYT-ADVANCED
Infinicyt™ Upgrade	CYT-INFINICYT-UPGRADE
EuroFlow [™] Database Accesses	CYT-INFINICYT-EFDB

EUROFLOW™ DATABASES

Infinicyt[™] includes EuroFlow[™] innovative tools that go one step forward in the analysis of flow cytometry data. For the first time, Infinicyt[™] aims at the **standardization** of the analysis with **databases** for pattern recognition and **software algorithms** to make these databases work.



EuroFlow™ Databases for screening, classification and monitoring of hematological and immunological malignancies.

Screening Databases

EuroFlow™ Databases for Acute Leukemia: ALOT Databases

EuroFlow[™] developed and validated two reference databases. Firstly, all cell populations present in the sample are compared with the normal reference database and classified as normal, or to be reviewed by the expert. Once the abnormal blast population is identified, the software automatically performs a comparison (using the Compass tool) with a reference database containing abnormal (B, T and Myeloid) leukemic cells.

EuroFlow™ Databases for Chronic Lymphoproliferative Disorders: LST Database

EuroFlow[™] created a reference database for peripheral blood samples that allows reliable and reproducible classification of normal and pathological lymphocytes efficiently orientating towards the most appropriate characterization panel.

EuroFlow™ Databases for Primary Immunodeficiencies: PIDOT Database

EuroFlow[™] created a database of representative normal peripheral blood samples stained with the PIDOT panel after standard processing of samples from hundreds of normal donors belonging to different age segments. Alerts set-up based on normal ranges are included in the report (reference age-related values).

Monitoring Databases

EuroFlow™ Databases for plasma cell dyscrasias (PCD): MM MRD and CTPC Databases

EuroFlow[™] created two reference databases, one for monitoring of circulating tumor plasma cells (CTPC) in peripheral blood at diagnosis and during/post-treatment and another database for MRD assessment in bone marrow samples after treatment.



EuroFlow





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