



**FISH Analyses**

Prices of the tests are in Euro, but can be converted to your local currency with the [currency converter](#).

**1. Microdeletion Syndromes**

Please send:

- at least 3 ml of heparinised (Na of Li) whole blood,
- or 10 to 20 ml of amniotic fluid,
- or at least 10 mg of chorionic villi.

Syndrome	OMIM	Target	Price in Euro
<b>ALAGILLE, AGS</b> » ARTERIOHEPATIC DYSPLASIA	<a href="#">118450</a>	20p12 deletion	300
<b>ANGELMAN, AS</b> » HAPPY PUPPET SYNDROME	<a href="#">105830</a>	15q11 - q13 deletion	300
<b>BECKWITH-WIEDEMANN, BWS</b> » EXOMPHALOS-MACROGLOSSIA-GIGANTISM SYNDROME	<a href="#">130650</a>	11p15.1 - p15.2 duplication	300
<b>CHARCOT-MARIE-TOOTH TYPE 1A, CMT1A</b>	<a href="#">118220</a>	17p11.2 duplication	300
<b>CRI DU CHAT</b> » CAT CRY SYNDROME	<a href="#">123450</a>	5p15.2 deletion	300
<b>DIGEORGE, DGS</b>	<a href="#">188400</a>	10p13 - p14 deletion	300
<b>DIGEORGE, DGS</b>	<a href="#">188400</a>	22q11.2 / 22q13 deletion	300
<b>GONADAL DYSGENESIS</b> » XY FEMALE » SWYER SYNDROME » DELETION SEX-DETERMINING REGION Y, SRY	<a href="#">306100</a>	Yp11.3 / Xp11.1-q11.1 deletion	300
<b>ICHTHYOSIS DUE TO STEROID SULFATASE DEFICIENCY</b>	<a href="#">308100</a>	Xp22.32 deletion	300
<b>KALLMANN, KAL1</b> » HYPOGONADOTROPIC HYPOGONADISM AND ANOSMIA	<a href="#">308700</a>	Xp22.3 / Xp11.1-q11.1 deletion	300
<b>KALLMANN, KAL2</b> » HYPOGONADOTROPIC HYPOGONADISM AND ANOSMIA	<a href="#">147950</a>	8p11.2 deletion	300
<b>LANGER-GIEDION, LGS</b> » TRICHO RHINO PHALANGEAL SYNDROME TYPE 2, TRPS2	<a href="#">150230</a>	8q24 deletion	300
<b>MENTAL RETARDATION AND CONGENITAL HEART DEFECT</b>	<a href="#">600576</a>	8p23.1 deletion	300
<b>MENTAL RETARDATION</b>		1p36 deletion	300
<b>NEUROFIBROMATOSIS, TYPE 1, NF1</b>	<a href="#">162200</a>	17q11.2 deletion	300
<b>MICROPHthalmIA WITH LINEAR SKIN DEFECTS</b> » MIDAS SYNDROME	<a href="#">309801</a>	Xp22.3 deletion	300
<b>MILLER-DIEKER, MDLS, MDS</b> » LISSENCEPHALY	<a href="#">247200</a>	17p13.3 deletion	300
<b>PRADER - WILLI, PWS</b>	<a href="#">176270</a>	15q11 - q13 deletion	300
<b>RUBINSTEIN-TAYBI, RSTS</b> » BROAD THUMB-HALLUX SYNDROME	<a href="#">180849</a>	16p13.3 deletion	300
<b>SHORT STATURE, SS</b>	<a href="#">604271</a>	Xpter - p22.32 deletion	300
<b>SMITH-MAGENIS, SMS</b>	<a href="#">182290</a>	17p11.2 / 17p13.3 deletion	300
<b>SOTOS</b> » CEREBRAL GIGANTISM	<a href="#">117550</a>	5q35 deletion	300
<b>TSC2 - PKD1 DELETION</b>		16p13.3 - p13.12 deletion	360
<b>VELOCARDIOFACIAL, VCF</b> » SHPRINTZEN » CATCH22	<a href="#">192430</a>	22q11.2 / 22q13 deletion	300
<b>WAGR</b> » WILMS TUMOR, WT1 » WILMS TUMOR-ANIRIDIA-GENITOURINARY ANOMALIES- MENTAL RETARDATION SYNDROME	<a href="#">194072</a>	11p13 deletion	300
<b>WILLIAMS-BEUREN, WBS</b> » WILLIAMS	<a href="#">194050</a>	7q11.23 / 7q31 deletion	300
<b>WOLF-HIRSCHHORN, WHS</b>	<a href="#">194190</a>	4p16.1 / 4p11-q11 deletion	300
<b>XX MALE</b> » TRANSLOCATION SEX-DETERMINING REGION Y, SRY	<a href="#">278850</a>	Yp11.3 / Xp11.1-q11.1 translocation	300
<b>M-FISH</b>		All Chromosomes	1000
<b>SUBTELOMERIC DELETIONS AND TRANSLOCATIONS</b>		All Telomeres	1000

<b>2. Constitutional Aneuploidies</b>	
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Please send:

- at least 3 ml of heparinised (Na of Li) whole blood,
- or 10 to 20 ml of amniotic fluid,
- or at least 10 mg of chorionic villi.

Syndrome	Chromosome	Price in Euro
<b>EDWARDS SYNDROME</b> » TRISOMY 18	18	300
<b>DOWN SYNDROME</b> » TRISOMY 21	21	300
<b>PATAU SYNDROME</b> » TRISOMY 13	13	300
<b>SEX-CHROMOSOME ANEUPLOIDIES</b>	X / Y	300
<b>ANEUPLOIDY ASSAY</b>	13, 18, 21, X / Y	500

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<b>3. Leukemias and Lymphomas</b>	
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Please send:

- at least 3 ml of bone marrow in Na or Li heparine vacutainers containing sterile transport medium (RPMI plus 10% FCS),
- or at least 5 mg of biopsy in a sterile recipient with transport medium (RPMI plus 10% FCS),
- or freshly made, unfixed bone marrow smears,
- or touch slides (for lymphomas, only briefly touch the slide on at least 3 areas, adherent cell clumps should be hardly visible by the eye).

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<b>3.a Deletions</b>	
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Disease	Deletion	Price in Euro
<b>MYELODYSPLASTIC SYNDROME, MDS</b>	-5 / 5q31	300
<b>MYELODYSPLASTIC SYNDROME, MDS</b>	-7 / 7q31	300
<b>B-CELL CHRONIC LYMPHATIC LEUKEMIA, B-CLL</b>	11q, 13q14.3, 17p13.3	500

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<b>3.b Aneuploidies</b>	
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Disease	Aneuploidy	Price in Euro
<b>B-CELL CHRONIC LYMPHATIC LEUKEMIA, B-CLL</b>	12	300
<b>MYELOPROLIFERATIVE DISEASE, MPD</b>	X / Y	300

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<b>3.c Translocations</b>	
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Disease	Chromosome	Gene	Price in Euro
<b>ACUTE LYMPHATIC LEUKEMIA, ALL</b>	t(1;19)	E2A / PBX1	300
<b>ACUTE MYELOID LEUKEMIA, AML</b>	t(8;21)	ETO / AML1	300
<b>ACUTE MYELOID LEUKEMIA, AML</b>	t(10;11)	AF10	300
<b>ACUTE MYELOID LEUKEMIA, AML</b>	t(12;21)	TEL / AML1	300
<b>ACUTE MYELOID LEUKEMIA, AML</b> <b>ACUTE LYMPHATIC LEUKEMIA, ALL</b>	t(?;11)	MLL	300
<b>ACUTE MYELOID LEUKEMIA, AML - M3</b>	t(15;17)	PML / RARA	300
<b>ACUTE MYELOID LEUKEMIA, AML - M3</b>		RARA break apart	300
<b>ACUTE MYELOID LEUKEMIA, AML - M4</b>	inv(16) t(16;16)	CBFB	300
<b>BURKIT LYMPHOMA, BL</b>	t(8;14)	IGH / MYC	300
<b>CHRONIC MYELOID LEUKEMIA, CML</b> <b>ACUTE LYMPHATIC LEUKEMIA, ALL</b>	t(9;22)	BCR / ABL	300
<b>FOLLICULAR LYMPHOMA, FL</b>	t(14;18)	IgH / BCL2	300
<b>NON HODGKIN LYMPHOMA, NHL</b>	t(2;5) or variants	ALK	300

NON HODGKIN LYMPHOMA , NHL		IgH break apart	300
NON HODGKIN LYMPHOMA , NHL	3q27	BCL6	300
NON HODGKIN LYMPHOMA , NHL	t(9;14)	PAX5 / IGH	300
MYELOYDYSPLASTIC SYNDROME, MDS ACUTE MYELOID LEUKEMIA, AML	3q26	EV11	300
MALT LYMPHOMA	t(11;18) t(14;18)	MALT1	300
MANTLE CELL LYMPHOMA , MCL MULTIPLE MYELOMA , MM	t(11;14)	IgH / CCND1	300
MULTIPLE MYELOMA	t(14;16)	IgH / MAF	300

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### 3.d Amplifications

Disease	Chromosome	Gene	Price in Euro
HODGKIN LYMPHOMA	2p13 - p12	REL	300

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### 4. Solid Tumors

Please send :

- 5-10 mg of tumor biopsy in a sterile recipient with transport medium (RPMI plus 10% FCS)
- or freshly made touch slides (only briefly touch the slide on at least 3 areas, adherent cell clumps should be hardly visible by the eye).

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### 4.a Deletions

Disease	Deletion	Price in Euro
RENAL CELL CARCINOMA NEUROBLASTOMA	3p25	300
RENAL CELL CARCINOMA PHEOCHROMOCYTOMA NEUROBLASTOMA	1p36	300
WILMS TUMOR	11p13	300
NEUROBLASTOMA	11q13	300

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### 4.b Gains

Disease	Aneuploidy	Price in Euro
NEUROBLASTOMA	17q23 - qter	300

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### 4.c Translocations

Disease	Chromosome	Gene	Price in Euro
ALVEOLAR RHABDOMYOSARCOMA	t(2;13) t(1;13)	PAX / FKHR	300
MYXOID LIPOSARCOMA	t(12;16)	FUS / CHOP	300
CONGENITAL FIBROSARCOMA	t(12;15)	ETV6 / NTRK3	300
EXTRASKELETAAL MYXOID CHONDROSARCOMA	t(9;22)	EWS / CHN	300
EWING SARCOMA DESMOPLASTIC ROUND CELL TUMOR	t(22;?)	EWSR1	300
SYNOVIAL SARCOMA	t(X;18)	SYT/SSX	300
LIPOMA LEIOMYOMA	12q	HMGIC	300
TERATOMA GERM CELL TUMOR	Iso(12p)		300

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### 4.d Amplifications

Disease	Chromosome	Gene	Price in Euro
NEUROBLASTOMA	2p24	MYCN	300
MEDULLOBLASTOMA	7p	EGFR	300

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