


CYTOGENETICS SECTION SAMPLE PROCESSING TABLE

Type of examination	Material sent	Maximum storage time from collection to delivery to the laboratory	Storage temperature from collection to delivery to the laboratory	Primary containers	Secondary containers	Tertiary Containers	Number of samples
Karyotype from lymphocyte metaphases	Whole blood	5 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Vacutainer with lithium heparin	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 (3-5 ml)
High-resolution karyotype from lymphocyte metaphases	Whole blood	5 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Vacutainer with lithium heparin	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 (3-5 ml)
Karyotype from fetal lymphocyte metaphases	Fetal blood	24-48 h	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Vacutainer with lithium heparin	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 (2-5 ml)

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Type of examination	Material sent	Maximum storage time from collection to delivery to the laboratory	Storage temperature from collection to delivery to the laboratory	Primary containers	Secondary containers	Tertiary Containers	Number of samples
Karyotype from metaphases of fibroblasts or other tissues	Abortion material, chorionic villi, fetal skin fragment, skin biopsy	5 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Reconstituted transport medium from the laboratory in 30ml containers (store at 4°C and room T 30 minutes before use)	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 per tissue type
Karyotype from amniotic fluid metaphases	Amniotic fluid	4 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Sterile non-cytotoxic conical bottom tubes provided by the laboratory (add 2/3 drops of sodium heparin in case of blood sampling)	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	2 (total approx. 20 ml: 10 ml amniotic fluid per tube)
Karyotype from chorionic villus metaphases	Chorial villi	4 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Reconstituted transport medium from the laboratory in 30ml containers (store at 4°C and room T 30 minutes before use)	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 (minimum 5 mg, preferably higher than 15 mg)

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Type of examination	Material sent	Maximum storage time from collection to delivery to the laboratory	Storage temperature from collection to delivery to the laboratory	Primary containers	Secondary containers	Tertiary Containers	Number of samples
IN SITU HYBRIDISATION (FISH) ON METAPHASES, INTERPHASE NUCLEI ON DIFFERENT TISSUES	Peripheral blood, Amniotic fluid, Chorionic villi	Depending on the type of material (see above)	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Depending on the type of material (see above)	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	Depending on the type of material (see above)
COMPARATIVE GENOMIC HYBRIDATION on arrays (Array - CGH) ON AMNIOTIC LIQUID with weeks of gestation less than 18 and more than 22	Amniotic fluid, Maternal whole blood, Paternal whole blood (optional)	4 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	For amniotic fluid the same material as for karyotype is used (see above) For blood: vacutainer with EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	For liquid as per karyotype (see above) For blood: 1
COMPARATIVE GENOMIC HYBRIDATION on arrays (Array - CGH) ON AMNIOTIC LIQUID with weeks of gestation between the 18th and 22nd	Amniotic fluid, Maternal whole blood, Paternal whole blood (optional)	24 h preferable given the week of gestation otherwise 4 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	For amniotic fluid: same material as for karyotype (see above) For blood: vacutainer with EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	For amniotic fluid, if possible, take approximately 25-26 ml in 3 test tubes (one with 5-6 ml for extraction from fresh fluid) For blood: 1

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Type of examination	Material sent	Maximum storage time from collection to delivery to the laboratory	Storage temperature from collection to delivery to the laboratory	Primary containers	Secondary containers	Tertiary Containers	Number of samples
COMPARATIVE GENOMIC HYBRIDATION on arrays (Array - CGH) ON CHORIAL VILES	Chorionic villi, Maternal whole blood, Paternal whole blood (optional)	4 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	For chorionic villi the same material as for karyotype is used (see above). For blood: vacutainer with EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	For chorionic villi: 1 (preferably more than 15 mg). For blood:1
COMPARATIVE GENOMIC HYBRIDATION on arrays (Array - CGH) ON PERIPHERAL BLOOD	Peripheral blood	10 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	Vacutainer con EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 (3-5 ml)
COMPARATIVE GENOMIC HYBRIDATION on arrays (Array - CGH) ON OTHER TISSUE	Skin, Abortive Material (whole maternal blood sample also required)	5 days	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	For skin and abortive material: as for karyotype (see above) For blood: vacutainer with EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	1 per tissue type
QF-PCR on amniotic fluid or chorionic villus	Chorionic villi or amniotic fluid	24-48 h	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	As per karyotype (see above)	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	As per karyotype (see above)

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Type of examination	Material sent	Maximum storage time from collection to delivery to the laboratory	Storage temperature from collection to delivery to the laboratory	Primary containers	Secondary containers	Tertiary Containers	Number of samples
Exclusion of maternal contamination	Chorionic villi or amniotic fluid, Maternal whole blood	24-48 h	After pick-up: +15 to +25°C +Transport: +10°C to +30°C	For chorionic villi and amniotic fluid: as for karyotype (see above) For blood: vacutainer with EDTA	Vacurette Transport Container (VTC)	Cardboard box and cooler UN 3373 cat B	For chorionic villi and amniotic fluid: same as for karyotype (see above) For blood: 1
SRY gene research	Chorionic villi or amniotic fluid, Whole blood, Buccal brush	Based on the type of material: - Chorionic villus, amniotic fluid 24-48 hours - Whole blood, Buccal brush 10 days	After pick-up: +15 to +25°C + Transport: +10 to +30°C For Buccal Brush ONLY: After pick-up: +2 to +30°C Transport: -20 to +35°C	For chorionic villi and amniotic fluid: as for karyotyping (see above) For blood: vacutainer with EDTA For buccal brush: swab in a test tube	Vacurette Transport Container (VTC) For Buccal Brush ONLY: Biohazard bag	Cardboard box and cooler UN 3373 cat B	- For chorionic villi and amniotic fluid: as for karyotype (see above). - For blood: 1 - For buccal brush: 2

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