



A Sysmex Group Company



## Instructions for Use (IFU)

REF: LPH 095 / LPH 095-S

### Del(5q) Plus Tri-Colour Deletion Probe



PROFESSIONAL USE ONLY



www.cytocell.com

Further information and other languages available at [www.ogt.com/cytocell](http://www.ogt.com/cytocell)

#### Intended Purpose

The CytoCell® Del(5q) Plus Tri-Colour Deletion Probe is a qualitative, non-automated, fluorescence *in situ* hybridisation (FISH) test used to detect chromosomal deletions in the 5p15.3, 5q31.2 and 5q32-q33.1 regions on chromosome 5 in Carnoy's solution (3:1 methanol/acetic acid) fixed haematologically-derived cell suspensions from patients with confirmed or suspected acute myeloid leukaemia (AML) or myelodysplastic syndrome (MDS).

#### Indications for Use

This product is designed as an adjunct to other clinical and histopathological tests in recognised diagnostic and clinical care pathways, where knowledge of 5p15.3, 5q31.2 or 5q32-q33.1 deletion status would be important for clinical management.

#### Limitations

This device is designed to detect genomic losses larger than the region covered by the aqua, red and green clones in this probe set, which includes the 5p15.3, 5q31.2 and 5q32-q33.1 regions. Genomic losses outside this region or partial losses of this region may not be detected with this product.

This device is not intended for: use as a stand-alone diagnostic, use as a companion diagnostic, prenatal testing, population-based screening, near-patient testing, or self-testing.

This device has not been validated for sample types, disease types, or purposes outside of those stated in the intended purpose.

It is intended as an adjunct to other diagnostic laboratory tests and therapeutic action should not be initiated on the basis of the FISH result alone.

Reporting and interpretation of FISH results should be performed by suitably qualified staff, consistent with professional standards of practice, and should take into consideration other relevant test results, clinical and diagnostic information.

This device is intended for laboratory professional use only.

Failure to adhere to the protocol may affect the performance and lead to false positive/negative results.

#### Principles of the Test

Fluorescence *in situ* hybridisation (FISH) is a technique that allows DNA sequences to be detected on metaphase chromosomes or in interphase nuclei from fixed cytogenetic samples. The technique uses DNA probes that hybridise to entire chromosomes or single unique sequences, and serves as a powerful adjunct to G-banded cytogenetic analysis. This technique can now be applied as an essential investigative tool within prenatal, haematological and solid tumour chromosomal analysis. Target DNA, after fixation and denaturation, is available for annealing to a similarly denatured, fluorescently labelled DNA probe, which has a complementary sequence. Following hybridisation, unbound and non-specifically bound DNA probe is removed and the DNA is counterstained for visualisation. Fluorescence microscopy then allows the visualisation of the hybridised probe on the target material.

#### Probe Information

Deletions of the long arm of chromosome 5 are one of the most common karyotypic abnormalities in myelodysplastic syndrome (MDS) and acute myeloid leukaemia (AML) with myelodysplasia related changes<sup>1,2</sup>.

A subset of MDS patients with del(5q) as a sole cytogenetic abnormality, or with a single additional abnormality not involving chromosome 7, have a consistent set of clinical features, termed the 5q- syndrome<sup>1</sup>. It is the only MDS subtype defined

cytogenetically in the World Health Organization classification system. This clinical entity with <5% blasts has a more favourable prognosis. However, patients with del(5q) associated with other cytogenetic abnormalities, or with excess blasts, have an inferior survival<sup>2,3</sup>.

In contrast to de novo MDS, prognosis of AML with del(5q) is generally unfavourable, especially when seen as a part of complex karyotype<sup>4</sup>. Deletion of 5q is also commonly seen in treatment related t-MDS and t-AML where prognosis is particularly poor<sup>1</sup>.

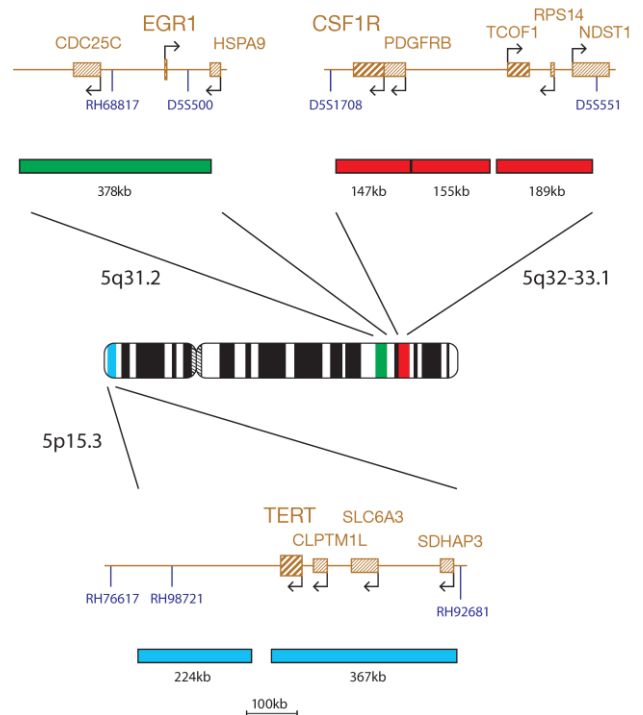
Two chromosomal regions have been mapped on chromosome 5q in MDS and AML. One common deleted region, at 5q33, is associated with the 5q- syndrome. Another, more proximal region located at 5q31, has been linked to a more aggressive form of MDS and AML and is often accompanied by additional cytogenetics abnormalities and a poorer prognosis<sup>1,3,5</sup>.

The CytoCell Del(5q) Plus Tri-Colour Deletion Probe will detect deletions of EGR1 (early growth response 1), a tumour suppressor gene at 5q31. EGR1 has been shown to act through haploinsufficiency to initiate the development of MDS/AML<sup>6</sup>. The probe will also detect deletions of RPS14 (ribosomal protein S14) at 5q33.1, patients with MDS with del(5q) are haploinsufficient for RPS14 which leads to impairment of ribosome biogenesis and affects translation of genes and activation of proteins involved in differentiation and apoptosis<sup>4</sup>. The TERT (telomerase reverse transcriptase) gene probe at 5p15.3 will help distinguish cases with del(5q) from those with monosomy 5.

#### Probe Specification

TERT, 5p15.3, Aqua  
EGR1, 5q31.2, Green  
CSF1R, 5q32-33.1, Red

CMP-H122 v001.00



The Del(5q) Plus Tri-Colour Deletion Probe mix consists of three distinct probes. The green probe (378kb) covers the CDC25C and EGR1 genes, along with their flanking regions that include the RH68817 and D5S500 markers. The red probe set (147kb, 155kb and 189kb) locates between the D5S1708 and D5S551 markers and includes the CSF1R, PDGFRB, TCOF1 and RPS14 genes. The aqua probe set (224kb and 367kb) locates between the markers RH76617 and RH92681 and includes the genes TERT, CLPTM1L, SLC6A3 and SDHAP3.

#### Materials Provided

**Probe:** 50µl per vial (5 tests) or 100µl per vial (10 tests)

The probes are provided premixed in hybridisation solution (formamide; dextran sulfate; saline-sodium citrate (SSC)) and are ready to use.

**Counterstain:** 150µl per vial (15 tests)

The counterstain is DAPI Antifade ES (0.125µg/ml DAPI (4,6-diamidino-2-phenylindole) in glycerol-based mounting medium).

#### Warnings and Precautions


1. For *in vitro* diagnostic use. For laboratory professional use only.
2. Probe mixtures contain formamide, which is a teratogen; do not breathe fumes or allow skin contact. Handle with care; wear gloves and a lab coat.
3. DAPI is a potential carcinogen. Handle with care; wear gloves and a lab coat.
4. Do not use if the vial(s) are damaged, or the vial contents are compromised in any way.
5. Follow local disposal regulations for your location along with recommendations in the Safety Data Sheet to determine the safe disposal of this product. This also applies to damaged test kit contents.

- Dispose of all used reagents and any other contaminated disposable materials following procedures for infectious or potentially infectious waste. It is the responsibility of each laboratory to handle solid and liquid waste according to their nature and degree of hazardousness and to treat and dispose of them (or have them treated and disposed of) in accordance with any applicable regulations.
- Operators must be capable of distinguishing the colours red, blue, and green.
- Failure to adhere to the outlined protocol and reagents may affect the performance and lead to false positive/negative results.
- The probe should not be diluted or mixed with other probes.
- Failure to use 10µl of probe during the pre-denaturation stage of the protocol may affect the performance and lead to false positive/negative results.
- All products should be validated before use.
- Internal controls should be carried out by using unaffected cell populations in testing samples.

#### Temperature Definitions

- 20°C / Frozen / In the Freezer: -25°C to -15°C
- 37°C: +37°C ± 1°C
- 72°C: +72°C ± 1°C
- 75°C: +75°C ± 1°C
- Room Temperature (RT): +15°C to +25°C

#### Storage and Handling

 The kit should be stored between -25°C to -15°C in a freezer until the expiry date indicated on the kit label. The probe and counterstain vials must be stored in the dark.



The FISH probe, DAPI Antifade ES counterstain, and Hybridisation Solution remain stable throughout the freeze-thaw cycles experienced during normal use (where one cycle constitutes the vial's removal from and replacement into the freezer). Exposure to light should be minimised and avoided wherever possible. Store components in the light proof

container provided. Components used and stored under conditions other than those stated on the labelling may not perform as expected and may adversely affect the assay results. All efforts must be made to limit exposure to light and temperature changes.

#### Equipment and Materials Necessary but not Supplied

Calibrated equipment must be used:

- Hotplate (with a solid plate and accurate temperature control up to 80°C)
- Calibrated variable volume micropipettes and tips range 1µl - 200µl
- Water bath with accurate temperature control at 37°C and 72°C
- Microcentrifuge tubes (0.5ml)
- Fluorescence microscope (Please see Fluorescence Microscope Recommendation section)
- Phase contrast microscope
- Clean plastic, ceramic or heat-resistant glass Coplin jars
- Forceps
- Calibrated pH meter (or pH indicator strips capable of measuring pH 6.5 – 8.0)
- Humidified container
- Fluorescence grade microscope lens immersion oil
- Bench top centrifuge
- Microscope slides
- 24x24mm coverslips
- Timer
- 37°C incubator
- Rubber solution glue
- Vortex mixer
- Graduated cylinders
- Magnetic stirrer
- Calibrated thermometer

#### Optional Equipment not Supplied

- Cytogenetic drying chamber

#### Reagents Needed but not Supplied

- 20x saline-sodium citrate (SSC) Solution
- 100% Ethanol
- Tween-20
- 1M Sodium hydroxide (NaOH)
- 1M Hydrochloric acid (HCl)
- Purified water

#### Fluorescence Microscope Recommendation

Use a 100-watt mercury lamp or equivalent and oil immersion plan apochromat objectives 60/63x or 100x for optimal visualisation. The fluorophores used in this probe set will excite and emit at the following wavelengths:

Fluorophore	Excitation <sub>max</sub> [nm]	Emission <sub>max</sub> [nm]
Aqua	418	467
Green	495	521
Red	596	615

Ensure appropriate excitation and emission filters that cover the wavelengths listed above are fitted to the microscope. Use a single bandpass aqua spectrum filter for optimal visualisation of the aqua spectrum or a triple bandpass red spectrum/green spectrum/aqua spectrum filter for simultaneous visualisation of the green, red and aqua fluorophores.

Check the fluorescence microscope before use to ensure it is operating correctly. Use immersion oil that is suitable for fluorescence microscopy and formulated for low auto fluorescence. Avoid mixing DAPI antifade with microscope immersion oil as this will obscure signals. Follow manufacturers' recommendations in regards to the life of the lamp and the age of the filters.

#### Sample Preparation

The kit is designed for use on haematologically-derived cell suspensions fixed in Carnoy's solution (3:1 methanol/acetic acid) fixative that are prepared according to the laboratory or institution guidelines. Prepare air dried samples on microscope slides according to standard cytogenetic procedures. The AGT *Cytogenetics Laboratory Manual* contains recommended recommendations for specimen collection, culturing, harvesting and for slide making<sup>7</sup>.

#### Solution Preparation

##### Ethanol Solutions

Dilute 100% ethanol with purified water using the following ratios and mix thoroughly:

- 70% Ethanol - 7 parts 100% ethanol to 3 parts purified water
- 85% Ethanol - 8.5 parts 100% ethanol to 1.5 parts purified water

Store the solutions for up to 6 months at room temperature in an airtight container.

##### 2xSSC Solution

Dilute 1 part 20xSSC Solution with 9 parts purified water and mix thoroughly. Check pH and adjust to pH 7.0 using NaOH or HCl as required. Store the solution for up to 4 weeks at room temperature in an airtight container.

##### 0.4xSSC Solution

Dilute 1 part 20xSSC Solution with 49 parts purified water and mix thoroughly. Check pH and adjust to pH 7.0 using NaOH or HCl as required. Store the solution for up to 4 weeks at room temperature in an airtight container.

##### 2xSSC, 0.05% Tween-20 Solution

Dilute 1 part 20xSSC Solution with 9 parts purified water. Add 5µl of Tween-20 per 10ml and mix thoroughly. Check pH and adjust to pH 7.0 using NaOH or HCl as required. Store the solution for up to 4 weeks at room temperature in an airtight container.

#### FISH Protocol

(Note: Ensure that exposure of the probe and counterstain to laboratory lights is limited at all times).

#### Slide Preparation

- Spot the cell sample onto a glass microscope slide. Allow to dry. (**Optional, if using a cytogenetic drying chamber:** The chamber should be operated at approximately 25°C and 50% humidity for optimal cell sample spotting. If a cytogenetic drying chamber is not available, use a fume hood as an alternative).
- Immerse the slide in 2xSSC for 2 minutes at room temperature (RT) without agitation.
- Dehydrate in an ethanol series (70%, 85% and 100%), each for 2 minutes at RT.
- Allow to dry.

#### Pre-Denaturation

- Remove the probe from the freezer and allow it to warm to RT. Briefly centrifuge tubes before use.
- Ensure that the probe solution is uniformly mixed with a pipette.
- Remove 10µl of probe per test, and transfer it to a microcentrifuge tube. Quickly return the remaining probe to the freezer.
- Place the probe and the sample slide to prewarm on a 37°C (+/- 1°C) hotplate for 5 minutes.
- Spot 10µl of probe mixture onto the cell sample and carefully apply a coverslip. Seal with rubber solution glue and allow the glue to dry completely.

#### Denaturation

- Denature the sample and probe simultaneously by heating the slide on a hotplate at 75°C (+/- 1°C) for 2 minutes.

#### Hybridisation

- Place the slide in a humid, lightproof container at 37°C (+/- 1°C) overnight.

#### Post-Hybridisation Washes

- Remove the DAPI from the freezer and allow it to warm to RT.
- Remove the coverslip and all traces of glue carefully.
- Immerse the slide in 0.4xSSC (pH 7.0) at 72°C (+/- 1°C) for 2 minutes without agitation.
- Drain the slide and immerse it in 2xSSC, 0.05% Tween-20 at RT (pH 7.0) for 30 seconds without agitation.
- Drain the slide and apply 10µl of DAPI antifade onto each sample.
- Cover with a coverslip, remove any bubbles and allow the colour to develop in the dark for 10 minutes.
- View with a fluorescence microscope (see **Fluorescence Microscope Recommendation**).

#### Procedural Recommendations

- Baking or ageing of slides may reduce signal fluorescence.
- Hybridisation conditions may be adversely affected by the use of reagents other than those provided or recommended by Cytocell Ltd.
- Use a calibrated thermometer for measuring temperatures of solutions, waterbaths and incubators as these temperatures are critical for optimum product performance.

- The wash concentrations, pH and temperatures are important as low stringency can result in non-specific binding of the probe and too high stringency can result in a lack of signal.
- Incomplete denaturation can result in lack of signal and over denaturation can also result in non-specific binding.
- Over hybridisation can result in additional or unexpected signals.
- Users should optimise the protocol for their own samples prior to using the test for diagnostic purposes.
- Suboptimal conditions may result in non-specific binding that may be misinterpreted as a probe signal.

#### Interpretation of Results

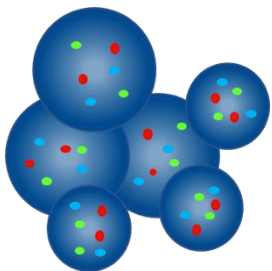
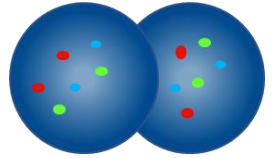
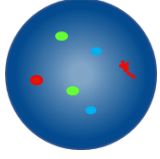
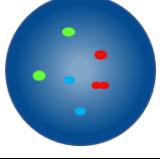
##### Assessing Slide Quality

The slide should not be analysed if:

- Signals are too weak to analyse in single filters - in order to proceed with analysis, signals should appear bright, distinct and easily evaluable
- There are high numbers of clumped/overlapping cells obstructing the analysis
- >50% of the cells are not hybridised
- There is excess of fluorescent particles between cells and/or a fluorescent haze that interferes with the signals - in optimal slides the background should appear dark or black and clean
- Cell nucleus borders cannot be distinguished and are not intact

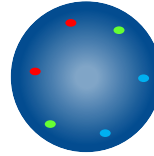
##### Analysis Guidelines

- Two analysts should analyse and interpret each sample. Any discrepancies should be resolved by assessment by a third analyst
- Each analyst should be suitably qualified according to recognised national standards
- Each analyst should score independently 100 nuclei for each sample. The first analyst should start the analysis from the left side of the slide and the second analyst from the right one
- Each analyst should document their results in separate sheets
- Analyse only intact nuclei, not overlapped or crowded nuclei or nuclei covered by cytoplasmic debris or high degree of autofluorescence
- Avoid areas where there is excess of cytoplasmic debris or non-specific hybridisation
- Signal intensity may vary, even with a single nucleus. In such cases, use single filters and/or adjust the focal plane
- In suboptimal conditions signals may appear diffuse. If two signals of the same colour touch each other, or the distance between them is no greater than two signal widths, or when there is a faint strand connecting the two signals, count as one signal
- If in doubt about whether a cell is analysable or not, then do not analyse it

Analysis Guidelines	
	Do not count – nuclei are too close together to determine boundaries
	Do not count overlapping nuclei – all areas of both nuclei are not visible
	Count as two red signals, two aqua signals and two green signals – one of the two red signals is diffuse
	Count as two red signals, two aqua signals and two green signals – the gap in one red signal is less than two signal widths

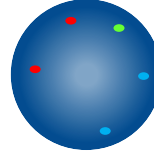
#### Expected Results

##### Expected Normal Signal Pattern

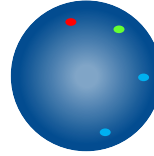


In a normal cell, two aqua, two green and two red signals are expected (2A2G2R).

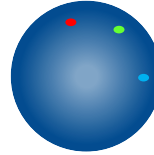
##### Expected Abnormal Signal Patterns



In a cell with a hemizygous deletion of 5q31.2, the expected signal pattern will be two aqua, one green and two red signals (2A1G2R).



In a cell with a hemizygous deletion of 5q, the expected signal pattern will be two aqua, one green and one red signal (2A1G1R).



In a cell with monosomy 5, the expected signal pattern will be one aqua, one green and one red signal (1A1G1R).

Other signal patterns are possible in aneuploid/unbalanced specimens.

##### Known Relevant Interferences / Interfering Substances

No known relevant interferences / interfering substances.

##### Known Cross-Reactivity

No known cross-reactivity.

##### Serious Incident Reporting

For a patient/user/third party in the European Union and in countries with identical regulatory regime (Directive 98/79/EC / Regulation (EU) 2017/746 on *In vitro* Diagnostic Medical Devices); if, during the use of this device or as a result of its use, a serious incident has occurred, please report it to the Manufacturer and to your National Competent Authority.

For serious incidents in other countries, please report it to the Manufacturer and, if applicable, to your National Competent Authority.

Manufacturer vigilance contact: [vigilance@oqt.com](mailto:vigilance@oqt.com)

For EU National Competent Authorities, a list of vigilance contact points can be found at: [https://ec.europa.eu/health/md\\_sector/contact\\_en](https://ec.europa.eu/health/md_sector/contact_en)

##### Specific Performance Characteristics

###### Analytical Specificity

Analytical specificity is defined as the percentage of signals that hybridise to the correct locus and no other location. 6 chromosomal loci in each of 20 metaphase cells from 5 samples were analysed, giving 600 data points. The location of each hybridised probe was mapped and the number of metaphase chromosome FISH signals that hybridised to the correct locus was recorded.

The analytical specificity of each probe in the kit was calculated as the number of metaphase chromosome FISH signals hybridised to the correct locus divided by the total number of metaphase chromosome FISH signals hybridised, this result was multiplied by 100, expressed as a percentage and given with a 95% confidence interval.

Table 1. Analytical Specificity for Del(5q) Plus Tri-Colour Deletion Probe

Target	Number of metaphase chromosomes hybridised	Number of correctly hybridised loci	Analytical Specificity	95% Confidence Interval
5q32-33.1	200	200	100%	98.12-100%
5q31.2	200	200	100%	98.12-100%
5p15.33	200	200	100%	98.12-100%

### Analytical Sensitivity

Analytical sensitivity is the percentage of scoreable interphase cells with the expected normal signal pattern. A minimum of 200 interphase cells were analysed for each of 25 fixed cell suspensions from bone marrow, resulting in a minimum of 5000 nuclei scored for each sample type. The sensitivity data was analysed based on the percentage of cells showing a normal expected signal pattern and expressed as a percentage with a 95% confidence interval.

Table 2. Analytical Sensitivity for Del(5q) Plus Tri-Colour Deletion Probe

Sample Type	Sensitivity Criteria	Sensitivity Result
Bone Marrow	>95%	98.9% (98.50-99.30%)

### Characterisation of Normal Cut-off Values

The normal cut-off is defined as the percentage of cells exhibiting a false positive signal pattern at which an individual would be considered normal and not consistent with a clinical diagnosis. A minimum of 200 interphase cells were analysed for each of 25 fixed cell suspensions from bone marrow, resulting in a minimum of 5000 nuclei scored for each sample type.

The cut-off value was determined using the  $\beta$ -inverse (BETAINV) function in MS Excel. It was calculated as the percentage of interphase cells showing a false positive signal pattern using the upper bound of a one-sided 95% confidence interval of the binomial distribution in a normal patient sample.

Table 3. Characterisation of Normal Cut-off Values for Del(5q) Plus Tri-Colour Deletion Probe

Sample Type	Signal Pattern	Cut-off Result
Bone Marrow	1A1G1R	2.34%
	2A1G2R	2.34%
	2A1G1R	6.26%

Laboratories must verify cut-off values using their own data<sup>8,9</sup>.

### Precision

The precision of this product has been measured in terms of intra-day precision (sample-to-sample), inter-day precision (day-to-day) and single-site inter-lot precision (lot-to-lot).

4 samples were used to assess the precision of this product: 1 negative bone marrow and 3 low positive bone marrow samples.

To establish the inter-day and intra-day precision, the samples were evaluated over 5 non-consecutive dates and to establish the lot-to-lot precision, 3 lots of the product were evaluated on 4 replicates of the same samples. The results were presented as the overall agreement with the predicted negative class (for the negative samples).

Table 4. Reproducibility and Precision for Del(5q) Plus Tri-Colour Deletion Probe

Variable	Sample type	Agreement
Intra-day (sample to sample) & inter-day (day to day) reproducibility	Bone Marrow Negative	100%
	Bone Marrow Low Positive (1A1G1R)	100%
	Bone Marrow Low Positive (2A1G1R)	100%
	Bone Marrow Low Positive (2A1G2R)	60%
Lot-to-lot reproducibility	Bone Marrow Negative	100%
	Bone Marrow Low Positive (1A1G1R)	100%
	Bone Marrow Low Positive (2A1G1R)	100%
	Bone Marrow Low Positive (2A1G2R)	58.3%

### Clinical Performance

To ensure that the product detects intended rearrangements, clinical performance was established over three retrospective studies at external sites on representative samples of the intended population for the product using 3:1 methanol/acetic acid-fixed material. The combined sample size for the three studies was 45 specimens, with 13 positive specimens and 32 negative specimens. All samples were de-identified and randomised to prevent analysis bias. The results were compared to the known status of the sample.

The results of these tests were analysed in order to provide clinical sensitivity, clinical specificity and false positive rate (FPR) values for positive signals, using a one-dimensional approach.

Table 5. Clinical Performance for Del(5q) Plus Tri-Colour Deletion Probe

Variable	Result
Clinical Sensitivity (True Positive Rate, TPR)	99.17%
Clinical Specificity (True Negative Rate, TNR)	99.65%
False Positive Rate (FPR=1-specificity)	0.35%

### Additional Information

For additional product information, please contact the CytoCell Technical Support Department.

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### References

- Ebert BL. Best Pract Res Clin Haematol. 2010;23(4):457-461.
- Swerdlow, et al. (eds). WHO Classification of Tumours of Haematopoietic and Lymphoid Tissues, France, 4th edition, IARC, 2017
- Fang J, Barker B, Bolanos L, et al. Cell Rep. 2014;8(5):1328-1338.
- Kanehira K, Ketterling RP, Van Dyke DL. Atlas Genet Cytogenet Oncol Haematol. 2010;14(3):314-316.
- Boulwood J, Pellagatti A, McKenzie ANJ, et al. Blood;116(26):5803-5811.
- Joslin JM, Fernald AA, Tennant TR, et al. Blood;110(2):719-726.
- Arsham, MS, Barch, MJ and Lawce HJ. (eds.) (2017) The AGT Cytogenetics Laboratory Manual. New Jersey: John Wiley & Sons Inc.
- Mascarello JT, Hirsch B, Kearney HM, et al. Section E9 of the American College of Medical Genetics technical standards and guidelines: fluorescence in situ hybridization. Genet Med. 2011;13(7):667-675.
- Wiktor AE, Van Dyke DL, Stupca PJ, et al. Preclinical validation of fluorescence in situ hybridization assays for clinical practice. Genetics in Medicine. 2006;8(1):16-23.

### Symbols Glossary

ISO 15223-1:2016 - "Medical devices - Symbols to be used with medical device labels, labelling and information to be supplied - Part 1: General requirements" (© International Organization for Standardization)		
Symbol	Title	Reference Number(s)
	en: Manufacturer	5.1.1
	en: Authorized representative in the European Community	5.1.2
	en: Use-by date	5.1.4
	en: Batch code	5.1.5
	en: Catalogue number	5.1.6
	en: Keep away from sunlight	5.3.2
	en: Temperature limit	5.3.7
	en: Consult instructions for use	5.4.3
	en: Caution	5.4.4
	en: In vitro diagnostic medical device	5.5.1
	en: Contains sufficient for <n> tests	5.5.5
EDMA symbols for IVD reagents and components, October 2009 revision		
Symbol	Title	Reference Number(s)
	en: Contents (or contains)	N/A

### Patents and Trademarks

CytoCell is a registered trademark of CytoCell Limited.

