
	<ul style="list-style-type: none"> Under what circumstances might your laboratory use a lower band resolution?
	<ul style="list-style-type: none"> Examine the karyograms from cases. Determine whether the band level is sufficient to provide the rendered interpretation.

CYG.42200 Band Level - Constitutional Cases**Phase II**

The band level for constitutional cases is at least at the 400-band level of resolution.

NOTE: Constitutional cases must be banded at least at the 400-band level (International System for Human Cytogenetic Nomenclature - ISCN).

Evidence of Compliance:

- ✓ Karyograms with appropriate band resolution

REFERENCES

- 1) American College of Medical Genetics, Standards and Guidelines for Clinical Genetics Laboratories, 2021 edition.
- 2) McGowan-Jordan J, Hastings R, Moore S, eds; International Standing Committee on Human Cytogenomic Nomenclature. *ISCN: An International System for Human Cytogenomic Nomenclature (2020)*. Basel, New York: Karger; 2020.
- 3) Department of Health and Human Services, Centers for Medicare and Medicaid Services, Clinical laboratory improvement amendments of 1988; final rule. Fed Register. 2003(Jan 24): [42CFR493.1276(b)(2)]

CYG.42300 Band Level - Blood Samples**Phase II**

At least the 550-band level of resolution is achieved in appropriate blood samples.

NOTE: The 550-band level is the minimum goal of all such studies, particularly in cases of developmental delay/intellectual disability, dysmorphology and birth defects.

Evidence of Compliance:

- ✓ Karyograms with appropriate band resolution

REFERENCES

- 1) American College of Medical Genetics, Standards and Guidelines for Clinical Genetics Laboratories, 2021 edition.
- 2) McGowan-Jordan J, Hastings R, Moore S, eds; International Standing Committee on Human Cytogenomic Nomenclature. *ISCN: An International System for Human Cytogenomic Nomenclature (2020)*. Basel, New York: Karger; 2020.

CYG.42400 Banding and Resolution**Phase II**

The quality of banding and resolution is sufficient to render the reported interpretation.

REFERENCES

- 1) Department of Health and Human Services, Centers for Medicare and Medicaid Services, Clinical laboratory improvement amendments of 1988; final rule. Fed Register. 2003(Jan 24): [42CFR493.1276(b)(3)]

IN SITU HYBRIDIZATION

The use of the term in situ hybridization (ISH) in this section applies to all ISH methods, including fluorescence (FISH), chromogenic (CISH), silver (SISH), and brightfield (BRISH) in situ hybridization.

Please refer to the Definition of Terms section of the All Common (COM) Checklist for definitions of analytical validation and analytical verification.