

NIPT COMPARISON CHART

GENERAL INFORMATION	Illumina (replaced Harmony)	Panorama Base panel + 22q11.2 deletion	Panorama Extended panel
Blood draw from week	10	9	9
Where test processed	UK	USA	USA
Turnaround time from blood draw	3-5 working days	10 working days	10 working days
How results are expressed in report	Risk evaluation	Risk evaluation	Risk evaluation
	The report will qualify the risk for the various conditions as low or high	The report will qualify the risk for the various conditions as low or high	
Failure rate	< 2%	1.4% after the first draw, 0.5% after redraw (Dar et al. Obstet Gynecol. 2022)	
	In some cases, a result cannot be reported from the blood sample processing. A redraw is offered for free after communication with the laboratory		
Twin pregnancies	X*	Zygosity detection, highly accurate individual fetal sex, fetal fraction of each twin	Not available for twin pregnancies
	*The Illumina test is available for twin pregnancies with the following limitations: cannot be performed in pregnancies where there is twin demise or vanishing twin; can identify the presence of Y chromosome but cannot distinguish between 1 and 2 male foetuses; Illumina is less performant than Panorama in twin pregnancies.		
Egg donor/IVF	x	Available for singleton pregnancies conceived using an egg donor or surrogate/gestational carrier	Not available for singleton pregnancies conceived using an egg donor or surrogate/gestational carrier

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CONDITIONS TESTED FOR						
Chromosome Condition	Illumina (replaced Harmony)	Panorama Base panel + 22q11.2 deletion	Panorama Extended panel	Condition	Prevalence in general population	Affects
Trisomy 21	x	x	x	Down Syndrome	1 in 800	Heart defects, mental delay, other
Trisomy 18	x	x	x	Edward Syndrome	1 in 5000	Variable but typically heart defects, marked mental delay, other. Neonatal death
Trisomy 13	x	x	x	Patau Syndrome	1 in 6000	Multiple severe abnormalities including heart defects, cleft lip/ palate, kidney abnormalities, other. Foetal or neonatal death.
X0 (missing X chromosome)	x	x	x	Turner Syndrome	1 in 2500 (girls)	Short stature, may have heart defects, kidney, skeletal abnormalities, webbed neck, infertility, other. May die before birth Normal intelligence
Sex Chromosome Aneuploidies (SCAs) XXX, XYY, XXYY, XXY (Klinefelter Syndrome)	x	x	x	Klinefelter Syndrome (47,XXY)	1 in 650 (boys) for Klinefelter	Usually mild to few effects. Possibly infertility in Klinefelter, may have learning disabilities
22q11-	-	x	x	DiGeorge syndrome	1 in 4,000	Heart defects, cleft palate, immune deficiency, learning disabilities, delay, other
5p	—	-	x	Cri Du Chat	1 in 20,000 to 50,000	Severe developmental delay, microcephaly, hypotonia, heart defects
15q-	—	-	x	Angelman syndrome Prader-Willi Syndrome	1 in 10,000 to 30,000	Developmental delay, other
1p36 del	—	-	x	1p36 deletion	1 in 10,000	Developmental delay, brain abnormalities, heart defects, other