

## The Panorama Difference

# Performance comparison of leading NIPTs based on published validation studies

### Aneuploidies

Sensitivity false-positive rates	Natera Panorama™ 1,2,3,4	Array-NIPT 5,6	WGS 1-NIPT 7,8,9,10	WGS 2-NIPT 11,12,13
Trisomy 21 Down syndrome	>99% <0.1%	>99% <0.1%	>99% 0.1%	>99% 0.3%
Trisomy 18 Edwards syndrome	98.2% <0.1%	96.7% <0.1%	96.9% 0.1%	97.8% 0.1%
Trisomy 13 Patau syndrome	>99% <0.1%	>99% <0.1%	89.3% 0.3%	80.0% 0.1%
Monosomy X Turner syndrome	94.7% <0.1%	>99% 0.1%	96.3% 0.3%	94.4% 0.2%
Triploidy Paternal origin	>99%	Unable to detect	Unable to detect	Unable to detect

### Microdeletion syndromes

Sensitivity	Natera Panorama™ 14, 15	Array-NIPT 16	WGS 1-NIPT 17,18	WGS 2-NIPT 19
22q11.2 Deletion/DiGeorge	90%*	75%	74%	No published data
Angelman	95.5%	Not offered	60–85%	No published data
Cri-du-chat	>99%	Not offered	~85%	No published data
1p36 Deletion	>99%	Not offered	60–85%	No published data
Prader-Willi	93.8%	Not offered	60–85%	No published data

\*Ninety percent sensitivity for the most common ~3Mb 22q11.2 deletion. Based on a validation study of 419 samples, in which Panorama correctly identified 9/10 samples that were positive for 22q11.2. Only the paternal allele is evaluated at fetal fractions < 6.5%.

### Fetal sex

Error rate	Natera Panorama™ 1,2,3	Array-NIPT 6	WGS 1-NIPT 9,10	WGS 2-NIPT 20
Fetal sex	Zero errors	1 in 748	1 in 169	1 in 77

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Panorama: part of the Natera family of products. Learn more at [www.natera.com/panorama-test](http://www.natera.com/panorama-test)