

☒ NEW TEST ☒ TEST CHANGE

NOTIFICATION DATE: 08/20/24

EFFECTIVE DATE: 09/03/24

Y chromosome Microdeletion Analysis (HLX YDEL)

On the effective date, Northwell Health Laboratories will now perform the Y chromosome Microdeletion Analysis test using PCR followed by Capillary electrophoresis improving turnaround time.

Microdeletions of Y chromosome (AZFa, AZFb and AZFc) are associated with various spermatogenic alterations including Sertoli cell-only syndrome (SCOS), maturation arrest, and hypospermatogenesis. The purpose of this test is to determine the cause of infertility in men with nonobstructive azoospermia or moderate or severe oligospermia. Y chromosome microdeletions will be detected using PCR amplification with specific sequence-tagged sites (STS) followed by capillary electrophoresis. The current test detects almost all clinically relevant deletions and of over 95% of the deletions reported in the literature in the three AZF regions. This is sufficient for routine diagnostics.

Limitations: This test does not identify any sequence variants within individual genes included in the AZF regions. Breakpoints of identified microdeletions will not be determined. The analytical sensitivity and specificity are 99%. Results should be combined with clinical information for the most accurate interpretation.

Test Requirement/Parameters	New	Previous
	Y chromosome Microdeletion Analysis	Y chromosome Microdeletion Analysis
Method	PCR followed by Capillary electrophoresis	PCR followed by Gel electrophoresis
Submission Container/Tube	Lavender-top (EDTA) tube	Lavender-top (EDTA) tube
Specimen Volume/Minimum Volume	3.0 – 5.0 mL Whole Blood	4.0 mL Whole Blood
Specimen Stability	Submitted at room temperature or 4°C, stored at 4°C until testing	Room Temperature: 8-16 days
Turn around time	8 days	7-14 days
Reference Range	Reported as either P (positive) if it is deleted or N (negative) if it is not deleted.	Reported as either P (positive) if it is deleted or N (negative) if it is not deleted.
Computer Interface Code	PDM # 248471	PDM #5902132
Test Order	HLX YDEL Case	YCHROMO



If you have any questions, please contact Client Services at (800) 472-5757.