

ARUP First- and Second-Trimester Maternal Serum Screening Options

	First Trimester Only	Serum Integrated (Without NT)	Full Integrated (With NT)	Sequential Screen	Quad	Maternal Serum Screening, AFP
ARUP test information	Maternal Serum Screen, First Trimester, hCG, PAPP-A, NT (3000145)	Maternal Serum Screening, Integrated, Specimen #1, PAPP-A, NT (3000147) Maternal Serum Screening, Integrated, Specimen #2, Alpha Fetoprotein, hCG, Estriol, and Inhibin A (3000149)	Maternal Serum Screening, Integrated, Specimen #1, PAPP-A, NT (3000147) Maternal Serum Screening, Integrated, Specimen #2, Alpha Fetoprotein, hCG, Estriol, and Inhibin A (3000149)	Maternal Screening, Sequential, Specimen #1, hCG, PAPP-A, NT (3000146) Maternal Screening, Sequential, Specimen #2, Alpha Fetoprotein, hCG, Estriol, and Inhibin A (3000148)	Maternal Serum Screen, Alpha Fetoprotein, hCG, Estriol, and Inhibin A (Quad) (3000143)	Maternal Serum Screening, Alpha Fetoprotein (3000144)
When sample(s) are collected	First trimester	First and second trimester	First and second trimester	First and second trimester	Second trimester	Second trimester
First-trimester measurements	US: CRL, NT Blood: PAPP-A, total hCG	US: CRL (optional) Blood: PAPP-A	US: CRL, NT Blood: PAPP-A	US: CRL, NT Blood: PAPP-A, hCG	n/a	n/a
Gestational age	Blood: 43–83.9 mm (11w0d–13w6d) NT: 38–83.9 mm (10w3d–13w6d)	Blood: 32.4–83.9 mm (10w0d–13w6d, by US or LMP)	Blood: 32.4–83.9 mm (10w0d–13w6d) NT: 38–83.9 mm (10w3d–13w6d)	Blood: 43–83.9 mm (11w0d–13w6d) NT: 38–83.9 mm (10w3d–13w6d)	n/a	n/a
Second-trimester measurements	n/a	AFP, hCG, uE3, DIA	AFP, hCG, uE3, DIA	AFP, hCG, uE3, DIA	AFP, hCG, uE3, DIA	AFP
Gestational age	n/a	15w0d–24w6d (by previous CRL or LMP)	15w0d–24w6d (by previous CRL)	15w0d–24w6d (by previous CRL)	14w0d–24w6d	14w0d–24w6d
Down syndrome						
Detection rate	85%	85%	87%	86% (63% at first draw; 23% at second draw)	81%	n/a
False-positive rate	6%	3–4%	1%	1.6% (0.6% at first draw; 1% at second draw)	4–5%	n/a
Trisomy 18						
Detection rate	~80%	90%	90%	90%	~80%	n/a
False-positive rate	<1%	0.01%	0.01%	0.01%	0.05%	n/a
Open NTDs						
Detection rate	n/a	80%	80%	80%	80%	80%
False-positive rate	n/a	1–2%	1–2%	1–2%	1–2%	1–2%
Results reported	First trimester	Second trimester	Second trimester	Both first and second trimesters	Second trimester	Second trimester

AFP, alpha-fetoprotein; CRL, crown-rump length; DIA, dimeric inhibin A; hCG, human chorionic gonadotropin; LMP, last menstrual period; n/a, not applicable; NT, nuchal translucency; NTDs, neural tube defects; PAPP-A, pregnancy-associated plasma protein A; uE3, unconjugated estriol; US, ultrasound