

Quad Screen (Second Trimester) Maternal, Serum

Reporting Title: QUAD SCRN (2nd Tri) Maternal, S

Performing Location: Rochester

#### **Necessary Information:**

In order to provide the best results, either answer the order entry questions or provide the required information using the Second Trimester Maternal Screening Alpha-Fetoprotein / Quad Screen Patient Information (T595).

### **Specimen Requirements:**

Container/Tube: Preferred: Serum gel Acceptable: Red top

Submission Container/Tube: Plastic vial

Specimen Volume: 1 mL Collection Instructions:

- 1. Do not collect specimen after amniocentesis as this could affect results.
- 2. Centrifuge and aliquot serum into plastic vial within 2 hours of collection

Additional Information:

- 1. For an assessment that includes neural tube defect results, gestational age must be between 15 weeks, 0 days and 22 weeks, 6 days.
- 2. Assessments for trisomy 21 (Down syndrome) and trisomy 18 (Edwards syndrome) only are available between 14 weeks, 0 days and 22 weeks, 6 days.
- 3. Initial or repeat testing is determined in the laboratory at the time of report and will be reported accordingly. To be considered a repeat test for the patient, the testing must be within the same pregnancy and trimester, with interpretable results for the same tests, and both tests are performed at Mayo Clinic.
- 4. Maternal Serum Screening patient education brochure (T522) is available upon request.

### Specimen Minimum Volume:

0.75 mL

#### Forms:

Second Trimester Maternal Screening Alpha-Fetoprotein / Quad Screen Patient Information (T595) is required.

Specimen Type	Temperature	Time	Special Container
Serum	Refrigerated (preferred)	7 days	
	Frozen	90 days	
	Ambient	7 days	



Quad Screen (Second Trimester) Maternal, Serum

### Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Туре	Reportable
QUAD1	DRPHN	Physician Phone Number	Plain Text	Yes
QUAD1	ESTDD	Patient's Estimated Due Date (EDD)	Plain Text	No
QUAD1	MTHOD	Method Used to Determine EDD: • Ultrasound • LMP	Answer List	No
QUAD1	MTWT	Patient Weight	Plain Text	No
QUAD1	LBKGS	Units (lbs or kg): • lbs • kg	Answer List	No
QUAD1	IDD	Insulin dependent diabetes:  None Diabetic	Answer List	Yes
QUAD1	RACE1	Patients race: • Black • non-Black	Answer List	Yes
QUAD1	MULTF	Number of Fetuses:  • 1  • 2  • 3 or more	Answer List	Yes
QUAD1	CHOR_	Number of Chorions:  • Monochorionic  • Dichorionic  • Unknown  • Not applicable	Answer List	Yes
QUAD1	IVFP	IVF pregnancy: • No • Yes	Answer List	Yes
QUAD1	EGGDR	IVF Egg Donor Date of Birth	Plain Text	No
QUAD1	EGGFR	IVF Egg or Embryo Freeze Date	Plain Text	No
QUAD1	PRHIS	Prev Down (T21) / Trisomy Pregnancy:  No Yes Unknown If MAFP - Not applicable	Answer List	Yes
QUAD1	PRNTD	Prev Pregnancy w/ Neural Tube Defect:  No Yes Unknown	Answer List	Yes

Quad Screen (Second Trimester) Maternal, Serum

Test ID	Question ID	Description	Туре	Reportable
QUAD1	PTNTD	Patient or father of baby has a NTD:  No Yes Unknown	Answer List	Yes
QUAD1	SMKNG	Current Cigarette smoking status:  Non-smoker Smoker	Answer List	Yes
QUAD1	INTL	Initial or repeat testing: Initial Repeat	Answer List	Yes

### **Result Codes:**

Result ID	Reporting Name	Туре	Unit	LOINC®
7058	Recalculated Maternal Serum Screen	Alphanumeric		32399-8
	Also used by tests: MAFP1			
113146	Results Summary	Alphanumeric		32399-8
	Also used by tests: MAFP1			
10334	Down syndrome screen risk estimate	Alphanumeric		43995-0
10335	Down syndrome maternal age risk	Alphanumeric		49090-4
10337	Trisomy 18 screen risk estimate	Alphanumeric		43994-3
113147	Neural tube defect risk estimate	Alphanumeric		48803-1
	Also used by tests: MAFP1			
10351	AFP	Alphanumeric		83073-7
	Also used by tests: MAFP1			
113148	AFP MoM	Numeric	MoM	23811-3
	Also used by tests: MAFP1			
601921	AFP MoM (14,0-14,6)	Numeric	МоМ	23811-3
10352	uE3	Alphanumeric		2250-9
113149	uE3 MoM	Numeric	МоМ	21264-7
10353	hCG, TOTAL	Alphanumeric	IU/mL	83086-9
113150	hCG, TOTAL MoM	Numeric	МоМ	23841-0
113151	INHIBIN MoM	Numeric	MoM	36904-1



Quad Screen (Second Trimester) Maternal, Serum

Result ID	Reporting Name	Туре	Unit	LOINC®
10354	INHIBIN	Alphanumeric		2478-6
10356	INTERPRETATION	Alphanumeric		49092-0
	Also used by tests: MAFP1			
10357	RECOMMENDED FOLLOW UP	Alphanumeric		80615-8
	Also used by tests: MAFP1			
10248	Additional comments	Alphanumeric		48767-8
	Also used by tests: MAFP1			
3009	Specimen collection date	Alphanumeric		33882-2
	Also used by tests: MAFP1			
7823	Maternal date of birth	Alphanumeric		21112-8
	Also used by tests: MAFP1			
7834	Calculated age at EDD	Alphanumeric		43993-5
	Also used by tests: MAFP1			
26717	Maternal Weight	Numeric	lbs	29463-7
	Also used by tests: MAFP1			
26718	Maternal Weight	Alphanumeric	kg	29463-7
	Also used by tests: MAFP1			
IDD	Insulin dependent diabetes	Alphanumeric		44877-9
	Also used by tests: MAFP1			
RACE1	Patient race	Alphanumeric		21484-1
	Also used by tests: MAFP1			
SMKNG	Current cigarette smoking status	Alphanumeric		64234-8
	Also used by tests: MAFP1			
10054	EDD by U/S scan	Alphanumeric		11781-2
	Also used by tests: MAFP1			
7203	GA on collection by U/S scan	Alphanumeric	wk,d	11888-5
	Also used by tests: MAFP1			
7753	EDD by LMP	Alphanumeric		11779-6
	Also used by tests: MAFP1			
7204	GA on collection by dates	Alphanumeric	wk,d	11885-1
	Also used by tests: MAFP1			



Quad Screen (Second Trimester) Maternal, Serum

Result ID	Reporting Name	Туре	Unit	LOINC®
			Offic	
7830	GA used in risk estimate	Alphanumeric		21299-3
	Also used by tests: MAFP1			
MULTF	Number of Fetuses	Alphanumeric		55281-0
	Also used by tests: MAFP1			
CHOR_	Number of Chorions	Alphanumeric		92568-5
	Also used by tests: MAFP1			
IVFP	IVF pregnancy	Alphanumeric		47224-1
	Also used by tests: MAFP1			
PRHIS	Prev Down (T21) / Trisomy Pregnancy	Alphanumeric		53826-4
PRNTD	Prev Pregnancy w/ Neural Tube Defect	Alphanumeric		53827-2
	Also used by tests: MAFP1			
PTNTD	Patient or father of baby has a NTD	Alphanumeric		53827-2
	Also used by tests: MAFP1			
INTL	Initial or repeat testing	Alphanumeric		77202-0
	Also used by tests: MAFP1			
DRPHN	Physician Phone Number	Alphanumeric		68340-9
	Also used by tests: MAFP1			
10358	GENERAL TEST INFORMATION	Alphanumeric		62364-5
	Also used by tests: MAFP1, 1STT1			

LOINC and CPT codes are provided by the performing laboratory.

### **Supplemental Report:**

No

### **CPT Code Information:**

81511



Quad Screen (Second Trimester) Maternal, Serum

#### **Reference Values:**

#### **NEURAL TUBE DEFECTS:**

An alpha-fetoprotein (AFP) multiple of the median (MoM) <2.5 is reported as screen negative. AFP MoM > or =2.5 (singleton and twin pregnancies) are reported as screen positive.

#### DOWN SYNDROME:

Calculated screen risks <1/270 are reported as screen negative, risks > or =1/270 are reported as screen positive.

#### TRISOMY 18:

Calculated screen risks <1/100 are reported as screen negative, risks > or =1/100 are reported as screen positive.

An interpretive report will be provided.