



# MOLQ LABORATORY (A UNIT OF MOLECULAR QUEST HEALTHCARE PVT. LTD.)

## Triple Screen

### PATIENT INFORMATION

NAME MRS NEETU  
 PATIENT CODE: 011807130049  
 DOB: 29/07/90 (DDMMYY)  
 LMP: 21/04/18  
 EDD: 17/12/18  
 PHYSICIAN:

### CLINICAL INFORMATION

GESTATIONAL AGE: 17 weeks 4 days  
 by U/S (17 wks 3 days on 12/07/18)  
 MATERNAL AGE AT TERM: 28.4 years  
 MATERNAL WEIGHT: 66.0 kg  
 MATERNAL RACE: INDIAN  
 MATERNAL IDDM: Not specified (Non-diabetic assumed)  
 GESTATION: Twins  
 SCREENING STATUS: Initial sample  
 PARA / GRAVIDA: 0 / 1

### SPECIMEN

SPECIMEN CODE: MOLQ LAB  
 COLLECTION DATE: 13/07/18

RECEIVED: 13/07/18  
 REFERRING LAB #: MOLQ LAB  
 REPORTED: 18/07/18

## CLINICAL RESULTS

|                                  | Second Trimester | Assay Results | MoM   |                  |  |  |
|----------------------------------|------------------|---------------|-------|------------------|--|--|
|                                  | AFP              | 354.4 ng/mL   | 8.92  |                  |  |  |
|                                  | uE3              | 2.80 ng/mL    | 2.09  |                  |  |  |
|                                  | hCG              | 316988 mIU/ml | 10.22 |                  |  |  |
| <b>Risk Assessment (at term)</b> |                  |               |       |                  |  |  |
| Down Syndrome                    | <b>~1:50000</b>  |               |       | <b>Cutoff</b>    |  |  |
| Age alone                        | 1:1130           |               |       | 1:250            |  |  |
| OSB:                             | >1:5             |               |       | 1:316(4.26 MoMs) |  |  |
| Trisomy 18                       | ~1:99000         |               |       | 1:100            |  |  |

  

| DS              | OSB                   | T18             |
|-----------------|-----------------------|-----------------|
| serum screen    | age only              | serum screen    |
| age only        | population prevalence | serum screen    |
| background risk | background risk       | background risk |
| ~1:50000        | 1:1130                | >1:5            |
| 1:1130          | 1:439                 | ~1:99000        |
| 1:1000          | 1:11300               | 1:11300         |
| 1:100           |                       |                 |
| 1:10            |                       |                 |

## Interpretation\* (based on partial information supplied)

### OPEN SPINA BIFIDA

### SCREEN POSITIVE

The maternal serum AFP result is ELEVATED for a TWIN pregnancy of this gestational age. The risk of an open neural tube defect is GREATER than the TWIN screening cut-off. Twin pregnancies on average have serum AFP concentrations that are twice those seen in singleton pregnancies. Counselling is indicated regarding further investigations, including a detailed fetal ultrasound and in some cases amniocentesis.

### DOWN SYNDROME

### Screen Negative

This patient's relative risk for Down syndrome has been determined by dividing the assay results by the average analyte level in twin pregnancies, and then calculating the risk associated with a singleton pregnancy. This relative risk calculation places the patient below the screening cut-off for Down syndrome.

### TRISOMY 18

### Screen Negative

Accuracy of gestational age is essential for valid interpretation.

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