Gestational Disease Profile

Indication for Use: Genetic evaluation of products of conception, complete and partial moles, and gestational carcinomas.

Gestational and non-gestational tumors have distinctly different tissues of origin, parental genotypes, natural histories and response to therapy. This microsatellite-based assay will classify a choriocarcinoma or a product of conception as gestational or non-gestational. Tumors classified as gestational will contain either paternal alleles only (complete mole) or a combination of maternal and multiples of paternal alleles (partial mole). Diploid products of conception will have one set of maternal and one set of paternal alleles. Non-gestational tumors will be of maternal origin, and will contain maternal alleles only. Benign maternal tissue is used as a reference for assignment of maternal alleles.

Testing Method: Maternal and fetal/tumor tissues are microdissected using H&E stained sections as guides. ABI AmpFlSTR Identifiler kit (Applied Biosystems) is used for determination of tissue identity by testing for 15 human microsatellite markers and amelogenin markers on the X and Y chromosomes. DNA isolation is followed by multiplex PCR analysis and capillary electrophoresis.

Turnaround Time: 3-5 business days

Sample requirements:

- Formalin-fixed, paraffin-embedded tissue
- 5-6 tissue sections (please include H&E slide and a copy of pathology report)

A pathologist will review H&E slide(s) and mark maternal and gestational tissues

CPT Codes: 81265, 88381 may apply