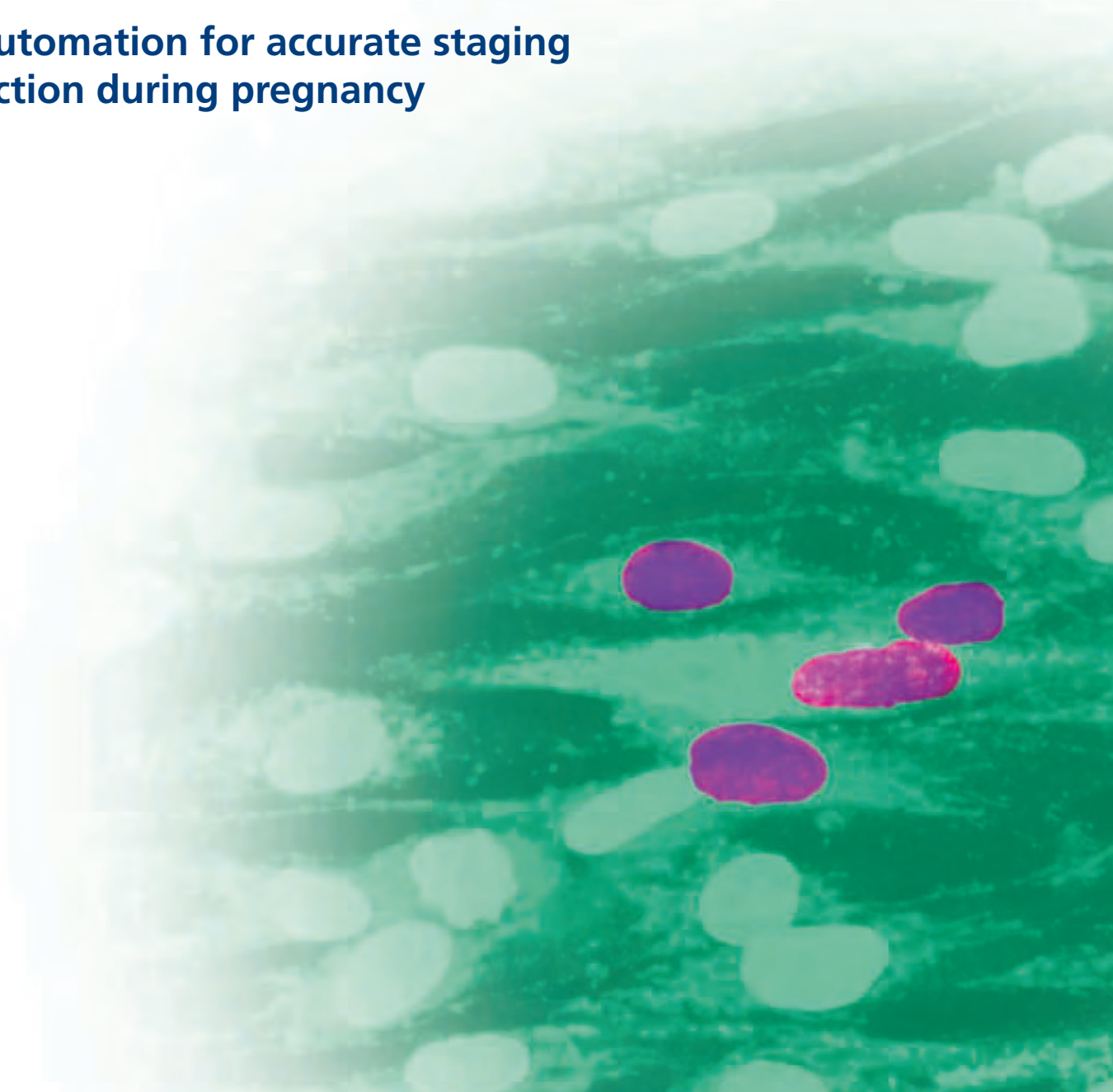


**Infectious Disease**

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# **Cytomegalovirus IgG, IgM, IgG Avidity**

**Total automation for accurate staging  
of infection during pregnancy**



**DiaSorin**

The Diagnostic Specialist

# Confidence in Your Results

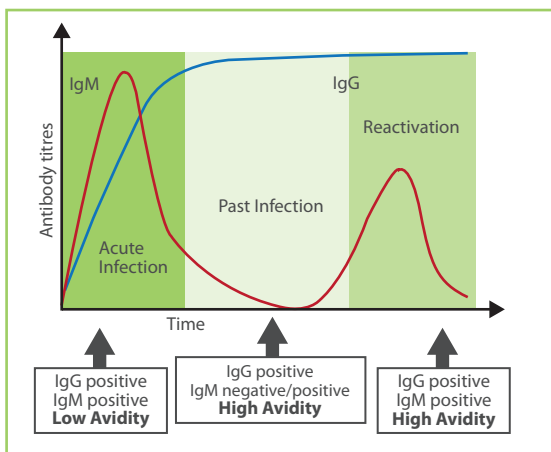
## LIAISON®

### Cytomegalovirus IgG, IgM, IgG Avidity

#### Acute infection or reactivation? LIAISON® CMV assay panel is the solution

Human Cytomegalovirus (hCMV) is the most common cause of viral intrauterine infection. Fetal damage is mostly due to maternal primary infection. Intrauterine transmission of CMV is significantly reduced in immunoprotected mothers compared to primary infections contracted during pregnancy (< 2% vs 40-50%, respectively). As infections are either asymptomatic or accompanied by symptoms which are non-specific for CMV, laboratory techniques are the sole means of diagnosing acute infections. However, the establishment of primary infection as opposed to reactivation, chronic infection, IgM persistency or polyclonal stimulation may be difficult on the basis of current classical CMV IgM and IgG detection.

DiaSorin LIAISON® serology line has been developed to solve diagnostic ambiguities. Sensitive and quantitative CMV IgM, with highly specific and quantitative CMV IgG, both complemented by CMV avidity determination in a fully automated LIAISON® assay environment, will allow the laboratory to report clear and unequivocal results. Positive IgM and low-avidity IgG are suggestive of primary infection, whereas high-avidity IgG indicates IgM presence due to persistency or reactivation. In addition, to avoid misinterpretation of positive, yet low IgM responses in primary infection, the IgM test will point to the need of IgG avidity determination to overrule primary infection.



IgG	IgM	Avidity	Diagnosis
Negative	Negative		No infection
Positive	Positive	Low	Possible Acute infection
Positive	Positive	High	Reactivation/ Past infection
Positive	Negative		Past infection

#### Main Features of CMV assays

- Number of tests: 100 (IgG avidity: 25 tests)
- Solid phase: CMV immunodominant antigens (pp28, pp150, pp52)
- Label: Isoluminol derivative
- Method: CLIA
- Assay format (IgG, IgM): Quantitative
- Sample type: Serum/Plasma

#### Flexibility enables quick and accurate results

- High throughput:
  - IgG: 90 results/hour
  - IgM: 50 results/hour
  - IgG Avidity: 30 results/hour
- Time to first result: 35 - 50 min
- Reagent stability on board: 2/8 weeks
- Two-point recalibration, stable for 4 weeks
- Sample volume: 20-30 µL

#### Ordering information

LIAISON® CMV IgG (code 310740)  
LIAISON® CMV IgM (code 310750)  
LIAISON® CMV IgG Avidity (code 310760)

LIAISON® Control CMV IgG (code 310741)  
LIAISON® Control CMV IgM (code 310751)  
LIAISON® Control CMV IgG Avidity (code 310761)

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