HIV-1 can attach to human cells either by using the CCR5 coreceptor, the CXCR4 coreceptor, or both (dual/mixed). Tropism testing determines how the virus can attach to the cells in a given patient. Possible tropism results are R5, DM, X4, and X4 near the limit of detection (NLOD).

**Why does my patient’s tropism matter?**
HIV tropism results can help you develop a personalized treatment plan for your patient. Appropriate use of CCR5 antagonists including maraviroc requires that an HIV tropism test be performed before initiation of therapy.1

**Trofile®**
A highly sensitive assay that provides critical information when selecting a treatment regimen containing maraviroc
- Trofile was utilized to identify treatment candidates in the maraviroc multicenter clinical trials.1
- Both the current DHHS and IDSA guidelines recommend tropism testing before initiation of treatment with a CCR5 antagonist.2,3
- Trofile is the only commercially available tropism assay that has been clinically validated through use in Phase 2 and Phase 3 clinical studies to identify CCR5 antagonist candidates.4-6

**Trofile® DNA**
Applies the proven performance of Trofile to cell-associated viral DNA
Consider Trofile® DNA when a patient’s viral load is undetectable, tropism is unknown, and substitution with a CCR5 antagonist-containing regimen is desired. Regimen substitution may be considered when7
- Laboratory results or clinical adverse events necessitate a change7,8
- Patient exhibits intolerance to the current regimen7
- There is concern regarding the long-term effects of the current regimen8

**GenoSure Archive® Plus Trofile® DNA**
Comprehensive suppression management profile
Designed to provide a comprehensive assessment of five antiretroviral drug classes (GenoSure Archive: NRTIs, NNRTIs, PIs, INIs and Trofile DNA: CCR5 antagonist) to facilitate regimen simplification or switches in the setting of Virologic suppression.
Monogram Biosciences and LabCorp are pleased to offer options in HIV-1 coreceptor tropism testing.

<table>
<thead>
<tr>
<th>Test Name</th>
<th>Test Number</th>
<th>Specimen Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trofile Select</td>
<td>553355</td>
<td>5mL plasma, EDTA tube, frozen and 4mL whole blood, EDTA tube, frozen</td>
</tr>
<tr>
<td>GenoSure Archive® Plus Trofile® DNA</td>
<td>552020</td>
<td>8mL whole blood, EDTA tube, frozen</td>
</tr>
</tbody>
</table>

Consider Trofile when:
- Patients have a viral load of ≥1000 copies/mL

Consider Trofile DNA when:
- Patients have an undetectable viral load

**Specimen Requirements**
- 3mL plasma, EDTA or PPT tube, frozen
- 4mL whole blood, EDTA tube, frozen

For additional test information, including specimen requirements, CPT coding and RUO/UJO status, consult the Online Test Menu at www.LabCorp.com.

Coverage support and assistance for Trofile®, Trofile® DNA, and Trofile® Select are available through Gateway at 877-436-6243.

* Trofile was clinically validated in the maraviroc registration studies.

** When ordered separately/individually

Trofile® Select
Consider Trofile Select when tropism testing is desired and viral load is unknown.

Allows for ordering of Human Immunodeficiency Virus 1 (HIV-1) coreceptor tropism status to be completed using the appropriate assay, Trofile® or Trofile® DNA, based on the results of an initial prescreening viral assessment by the laboratory. The coreceptor tropism status may be used to determine eligibility for CCRS antagonist therapy such as maraviroc (Selzentry®).

References