Peripheral Blood Mononuclear Cells  
Catalog Number: 1001  
Lot Number: 4236MA19

Certificate of Analysis

Cell count  
80.6 million per vial
Viability  
92%
CD3+  
61.5%
CD19+  
12.1%
CD14+  
13.5%
CD11c+  
20.3%
CD16+  
4.4%
CD56+  
5.1%
Sterility  
Negative for Bacteria, Yeast, and Fungi

Donor Information

Donor ID  
338
Age  
23
Race  
Caucasian
Gender  
Male
Height  
5' 6"
Weight  
145 lbs.
ABO Type  
O positive

HLA typing

<table>
<thead>
<tr>
<th>Allele</th>
<th>Allele</th>
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<tbody>
<tr>
<td>HLA-A</td>
<td>*0201</td>
</tr>
<tr>
<td>HLA-B</td>
<td>*08</td>
</tr>
<tr>
<td>HLA-C</td>
<td>*04</td>
</tr>
<tr>
<td>HLA-DRB1</td>
<td>*0301</td>
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</table>

Note: Genotype at FcgRIIIa 158 is F/F.

Donors are tested for the blood borne pathogens HIV-1 and 2, Hepatitis B, Hepatitis C and HTLV-1 and are negative. Cells should still be handled as if potentially infectious following biosafety level 2 procedures

FOR RESEARCH USE ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE

Astarte Biologics, LLC. 425-481-4180 astartebio.com
Peripheral Blood Mononuclear Cells
Catalog Number: 1001
Lot Number: 4236MA19

- IgG FITC
- CD3 FITC
- CD19 PE
- CD14 FITC
- CD11c PE
- CD14 FITC
- CD66 PE
- CD16 FITC

For Research Use Only. Not for Diagnostic or Therapeutic Use.
### Lot Specific Recall Antigen Response

<table>
<thead>
<tr>
<th></th>
<th>Interferon gamma</th>
<th>TNF alpha</th>
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<tbody>
<tr>
<td>Media Control</td>
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<tr>
<td>Tetanus Toxoid</td>
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<td>24</td>
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<td>PHA</td>
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<td>513</td>
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<tr>
<td>LPS</td>
<td>8149</td>
<td>654</td>
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<tr>
<td>Cytomegalovirus</td>
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<td>1</td>
</tr>
</tbody>
</table>

Values are pg/mL of culture medium collected 4 days after stimulation with antigen or mitogen.