Quick Reference Card

Guava® easyCheck™ Kit
4500-0025

To verify the performance of the Guava® easyCyte™ Systems
For Research Use Only; not for use in diagnostic procedures.

Materials Recommended

- Guava® easyCyte™ Instrument with GuavaSoft™ software
- Micropipettors and disposable micropipettor tips
- Vortex mixer
- Disposable gloves
- 20% bleach solution
- Deionized water
- Guava® Instrument Cleaning Fluid (ICF) [Catalog No. 4200-0140]
- 96-well microplate or microcentrifuge tubes (0.5 mL and 1.5 mL, or 1.2 mL titer tubes) appropriate for your system.

NOTE: Refer to the appropriate Guava easyCyte System user’s guide for details and order information.

Kit Components

- Guava® easyCheck™ Bead Reagent (Part No. 4200-0075)
- Guava® Check Diluent (Part No. 4200-0050)

Storage Conditions

- Store Guava® easyCheck™ Kit refrigerated at 2 to 8°C. Do not freeze.

Assay Protocol

Add 380 μL of Guava® Check Diluent to a tube
Add 20 μL of easyCheck™ Bead Reagent
Mix thoroughly and run on easyCyte™ system

NOTE: Three replicates are acquired and the results are averaged.
**Results**

The result is based on the mean fluorescence intensity (MFI) values and the bead count for each replicate. The software displays the bead count (Particles/mL), FSC and SSC intensities, and the MFI for all fluorescence parameters for each replicate, as well as the averages and %CVs.

A result falls outside the acceptable range if:

- any result for an FSC or SSC intensity or MFI falls outside the range printed on the lot-specific card included with the kit.
- any result for Particles/mL falls outside the ±10% of the expected value
- the %CV for Particles/mL is >10%

**NOTE:** Particles/mL counts and %CV falling outside the expected values appear in red.
- the %CV for FSC or SSC intensity or an MFI is >5%

Expected values can be found on the card that comes with the kit.

<table>
<thead>
<tr>
<th>Sample Information</th>
<th>Particles/mL</th>
<th>FSC Intensity</th>
<th>SSC Intensity</th>
<th>BLU-V MFI</th>
<th>GRN-V MFI</th>
<th>YEL-V MFI</th>
<th>RED-V MFI</th>
<th>GRN-B MFI</th>
<th>YEL-B MFI</th>
<th>RED-B MFI</th>
<th>NIR-B MFI</th>
<th>RED-R MFI</th>
<th>NIR-R MFI</th>
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<tbody>
<tr>
<td>Replicate 1</td>
<td>211</td>
<td>2432</td>
<td>6816</td>
<td>515</td>
<td>510</td>
<td>551</td>
<td>594</td>
<td>367</td>
<td>1712</td>
<td>1033</td>
<td>356</td>
<td>1130</td>
<td>2112</td>
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<tr>
<td>Replicate 2</td>
<td>211</td>
<td>2432</td>
<td>6816</td>
<td>515</td>
<td>510</td>
<td>551</td>
<td>594</td>
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<td>1712</td>
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<td>2112</td>
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<td>367</td>
<td>1712</td>
<td>1033</td>
<td>356</td>
<td>1130</td>
<td>2112</td>
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<td>Average</td>
<td>211</td>
<td>2432</td>
<td>6816</td>
<td>515</td>
<td>510</td>
<td>551</td>
<td>594</td>
<td>367</td>
<td>1712</td>
<td>1033</td>
<td>356</td>
<td>1130</td>
<td>2112</td>
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<tr>
<td>%CV</td>
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<td>0.00%</td>
<td>0.00%</td>
<td>0.00%</td>
<td>0.00%</td>
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</tr>
</tbody>
</table>

**Figure.** Example data of easyCheck™ beads acquired on the Guava® easyCyte™ Instrument. Results include the bead count for each replicate, average bead count, and %CV, as well as FSC and SSC intensities and mean fluorescence intensities (MFIs) for each replicate and the averages and %CVs.

For more information on the results, refer to the appropriate Guava easyCyte System user’s guide. For information on preparing and running the beads, refer to the kit user’s guide, which can be found at www.luminexcorp.com/flowkits.