Q-Plex Human Micronutrient Array

The Q-Plex™ Human Micronutrient Array (7-plex) is a fully quantitative chemiluminescent assay allowing concurrent measurement of biomarkers used in nutritional assessment in heparinized plasma samples. Analytes CRP, Ferritin, Thyroglobulin (Tg), and HRP2 are sandwich ELISAs while AGP, RBP4 and sTfR are competitive ELISAs.

A kit contains a 96-well plate, with each well featuring the 7-plex along with a positive control and all the other reagents necessary to perform the test. Our high quality reagents help ensure the accuracy of your results.

Using just 10 µl of plasma (with 40 µl of diluent) per well, up to 80 wells can be tested for all seven markers in the panel in 2.5 hours. Q-Plex Arrays provide scientists with an easy-to-use and cost effective means of generating a biomarker profile for each sample.

Micronutrient Kit

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Product</th>
<th>Markers</th>
</tr>
</thead>
<tbody>
<tr>
<td>565149HU</td>
<td>Q-Plex™ Human Micronutrient Array (7-plex)</td>
<td>AGP, CRP, Ferritin, HRP2</td>
</tr>
</tbody>
</table>

**Product Range**

<table>
<thead>
<tr>
<th>Units</th>
<th>Sample Range of Quantification</th>
<th>LLD</th>
<th>Calibrator*</th>
</tr>
</thead>
<tbody>
<tr>
<td>AGP</td>
<td>g/L</td>
<td>0.36 - 0.0005</td>
<td>0.0019</td>
</tr>
<tr>
<td>CRP</td>
<td>mg/L</td>
<td>5.61 - 0.0077</td>
<td>0.006</td>
</tr>
<tr>
<td>Ferritin</td>
<td>µg/L</td>
<td>115 - 0.1578</td>
<td>0.2057</td>
</tr>
<tr>
<td>sTfR</td>
<td>mg/L</td>
<td>107 - 0.1468</td>
<td>0.1917</td>
</tr>
<tr>
<td>RBP4</td>
<td>µmol/L</td>
<td>1.01 - 0.0014</td>
<td>0.0054</td>
</tr>
<tr>
<td>Tg</td>
<td>µg/L</td>
<td>13.7 - 0.0188</td>
<td>0.0244</td>
</tr>
<tr>
<td>HRP2</td>
<td>µg/L</td>
<td>0.96 - 0.0013</td>
<td>0.0017</td>
</tr>
</tbody>
</table>

* Actual values may vary from kit to kit. Please see the antigen card included in your kit for specific values.


Increase productivity with Quansys products and services. Save Time, Sample and Money.

The Q-View Software
- Friendly imaging analysis software that enables the acquisition and analysis of large amounts of multiplex ELISA data.
- The Q-View Software is a user-friendly imaging system for chemiluminescent assay imaging.

The Q-Plex Array
- Our Q-Plex Arrays are quantitative multiplex ELISAs with distinct proteins deposited in a defined array. Choose one of our standard kits for immediate delivery or customize the exact array you need.

Performing the Assay
- Robotic liquid handlers print 20–50nL spots of capture antibody. Each spot is a unique assay within the well.
- Spot size: 300–500µm. Low spot-to-spot variability (CV).
- Plates are QCd for spot quality.

Image Capture
- An image of the plate is taken via a high-resolution camera (Q-View Imager Pro or approved gel doc system) or fluorescent scanner (LI-COR Odyssey).
- The image file (TIFF) is imported into Q-View Software and a Q-View Project is created.

Data Analysis
- Raw data is analyzed and compared to in-plate standards. Regression models are used to calculate unknowns. Standard curves are automatically generated.
- The intensity of spot response is measured and raw data is generated.

Image Analysis
- An image of the plate is taken via a high-resolution camera (Q-View Imager Pro or approved gel doc system) or fluorescent scanner (LI-COR Odyssey).
- The image file (TIFF) is imported into Q-View Software and a Q-View Project is created.

Detection of Sample
- If antigen is present, the spot emits a signal proportional to the amount of antigen in the sample.
- If no antigen is present, the spot is not visible.

Sample Testing Service
- Our lab runs immunoassays on a wide variety of biological samples. Increase productivity and focus on your core research while we test your samples for you.

www.quansysbio.com