ProtoFluor Z is a hematofluorometer dedicated to the measurement of zinc protoporphyrin in whole blood. Elevated zinc protoporphyrin (ZPP) levels are useful as an early indicator of iron deficiency. The ProtoFluor Z instrument is easy to use. The operator simply inserts the sample holder containing the sample into the instrument, then presses the measure button. The ZPP value is displayed on the LED and can be reported in µmol ZPP/mol Heme (ratio of ZPP to heme), in µg/dL whole blood at a 35% hematocrit for adults, or µg/dL whole blood at a 42% hematocrit for children. The ProtoFluor method is inexpensive, requires only one drop of whole blood, and takes only seconds to perform, making it an ideal screening test.

ProtoFluor Z Analyzer
Cat. No. Item
2005 ProtoFluor Z, 110V
2006 ProtoFluor Z, 220V

ProtoFluor Reagents
The ProtoFluor Reagent is designed to stabilize hemoglobin so that it has the same spectral characteristics as fully oxygenated hemoglobin. ProtoFluor Calibrators are stable solutions of zinc protoporphyrin and heme used in calibration. Calibration requires only a few seconds and adjustments in calibrations are accomplished by simultaneously pressing two control buttons on the front panel of the instrument. Coverslips are specifically manufactured and processed from low fluorescing glass.

ProtoFluor Reagent Kits
Cat. No. Item
2000 ProtoFluor Reagent Kit
   2 x 15 mL ProtoFluor Reagent
   2 x 125 ProtoFluor Coverslips
   1 x 2.5 mL ProtoFluor Calibrator-Low
   1 x 2.5 mL ProtoFluor Calibrator-High
2002 ProtoFluor Reagent, 2 x 15 mL
2010 ProtoFluor Calibrator-Low, 5 x 2.5 mL
2011 ProtoFluor Calibrator-High, 5 x 2.5 mL
2001 ProtoFluor Coverslips, 10 x 125

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ProtoFluor Z Specifications

Units of Measurement: µmol ZPP/mole Heme (ratio of ZPP to Heme in the red blood cell) or µg ZPP/dL Whole Blood (concentration)

Measurement Range: 0 to 600 µmol ZPP/mole Heme, 0 to 270 µg/dL Whole Blood

Input Power: 110V, 50/60 Hz; 220V, 50/60 Hz

Dimensions: 7½” H x 11½” W x 11¼” D (19 x 29.5 x 28.6 cm)

Weight: 12.6 lb (5.7 kg)

Environment: 15 to 30°C (59 to 86°F)

Versatility in Reporting Units

By changing the position of the mode switch on the back of the instrument, ProtoFluor Z can report in:

• S.I. units, µmol ZPP/mole Heme (ratio of ZPP to heme)
• µg/dL whole blood at a 35% hematocrit for adults
• µg/dL whole blood at a 42% hematocrit for children

ProtoFluor Z takes advantage of these natural measurements to provide a direct ratio readout. The measurement and expression of results as µmol ZPP/mole Heme improves the quality of results, partly by eliminating the assumed hematocrit. However, many physicians and laboratorians have traditionally used methods which provide results in µg/dL units and prefer to continue using these units. The instrument gives you this option.

ProtoFluor Z Accessories and Services

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Item</th>
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<tbody>
<tr>
<td>2007</td>
<td>ProtoFluor Sample Holder</td>
</tr>
<tr>
<td>1147</td>
<td>Comprehensive Replacement Agreement for PFZ</td>
</tr>
<tr>
<td>9147</td>
<td>Service Manual for ProtoFluor Z</td>
</tr>
</tbody>
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