

Bios NPD, FPD Plus, Micro-ECD

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

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Екатеринбург (343)384-55-89
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GC Selective Detectors

Blos Nitrogen-phosphorus Detector (NPD)

Nitrogen-phosphorus detectors (NPD) for gas chromatography are specific to nitrogen- or phosphorus-containing compounds and are well suited for environmental and forensic applications. A key component to NPD performance is its bead.

The Blos bead for the Agilent NPD is based on a high-performance glass material technology resulting in very high operational stability and long lifetime compared to ceramic beads.



| Features

- Blos bead has a longer lifetime (more than 2x) than a ceramic bead
- More stable operation throughout the bead's lifetime
- For nitrogen containing compounds – similar sensitivity and selectivity specifications
- For phosphorous containing compounds – superior sensitivity and selectivity specifications
- Excellent resistance to ambient humidity and moisture

GC Selective Detectors

Flame Photometric Detector Plus (FPD Plus)

The Agilent Flame Photometric Detector Plus (FPD Plus) utilizes new photomultipliers, proprietary deactivation treatments, and other design enhancements to decrease MDLs when used in sulfur or phosphorous modes.

In addition, these enhancements raise the FPD Plus maximum operating temperature. These capabilities are also available with the dual-wavelength version, the Agilent Dual Flame Photometric Detector Plus (DFPD Plus).



| Features

- FPD Plus MDL (sulfur mode) is improved to 2.5 pg S/sec for 8890 GC
- FPD Plus MDL (phosphorous mode) is improved to 45 fg P/sec for 8890 GC
- FPD Plus maximum operating temperature is 400°C
- These specifications are the same for the dual-wavelength version, the Agilent Dual Flame Photometric Plus Detector (DFPD Plus)

Micro-ECD

The Agilent micro-electron capture detector (micro-ECD), as part of an Agilent GC system, provides trace-level analysis of halogenated organic compounds and aromatic pollutants.

Major design innovations neatly wrap ruggedness and reliability around unprecedented sensitivity and linearity. Spend less time maintaining the detector and more time running samples with the Agilent micro-ECD.



| Features

- Small detection zone volume contributes to unsurpassed sensitivity
- MDL of 3.8 fg/mL of lindane for 8890 GC
- A broad dynamic linear range for confident, accurate quantitation of samples containing compounds with unknown concentrations, from femtograms to nanograms per microliter, e.g., linearity of 5×10^4 for lindane
- Compliant with U.S. EPA Contract Laboratory Program linearity requirements for pesticides over a range of 1 to 500 picograms/microliter
- Higher linear velocities through the detection zone reduce analyte residence time, decrease the chance of cell contamination, and improve uptime
- Hidden anode minimizes the chance for contamination to reach the anode
- Optimized electric field minimizes contamination effects on cell performance
- Variable sampling rate from 5 to 500 Hz makes it ideal for fast chromatography



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