



**GEL PERMEATION/SIZE EXCLUSION
CHROMATOGRAPHY SYSTEM
EQUIPPED WITH FOUR DETECTOR**

(GPG/SEC; mod. HPLC 1260 Infinity II/GPC Bio-Inert with MDS)

VENDOR: AGILENT TECHNOLOGIES ITALIA

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Technical features:

- HPLC system characterized by inert fluidic, without stainless steel components, compatible with salts and able to operate in a wide pH range (1-13).
- Quaternary pump with maximum pressure limits up to 600 bar.
- Autosampler with temperature control from 4°C to 40°C, able to put up both 1.5-2 ml vials and microplates.
- Multicolumn compartment able to accommodate up to 8 columns, with temperature control from 4°C to 110°C.
- Dual-angle light scattering detector for GPC application.
- Refractive Index detector, programmed to work both under analytical and GPC conditions.
- Diode Array Detector (190-900 nm), programmed to work both under analytical and GPC conditions.
- Fluorescence detector.
- Software for instrument control and data analysis: OpenLAB and, in addition, a dedicated GPC/SEC software provided by Agilent for GPC calculations.

Applications:

- Analysis of various classes of biomolecules, interesting for both food- and pharmaceutical applications, mainly low- and high-molecular weight carbohydrates, proteins and tannins.
- Determination of the level of aggregation of proteins subjected by different environmental conditions.
- Study of the formation of protein-protein complexes.

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