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Refurbished HPLC: Cost Effective and Reliable

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High Performance Liquid Chromatography is a power tool for analysis and is used to separate a mixture of compounds to identify, quantify, and purify the individual components of the mixture. A workable system includes a sampler, pump, column, detector and data processor. As buying a new system could prove to be a costly affair therefore refurbished HPLC systems can be used to carry out the analysis. Moreover these systems are completely reliable and can even be kept as a backup for use in case of need. The refurbishing process ensures the same quality standards for refurbished devices as for new systems.

All the refurbished systems are fully tested and calibrated to assure that the clients get the performance and security needed to perform the analysis. These used hplc systems are also competitively priced but you need to consider certain points while purchasing these systems. For many chemists the meaning of specification many not be easy to understand therefore you need to check for the feedback from other users, hands-on experience or an instrument demo, support capability of the vendor, cost of maintenance and possibility of future upgrade. The used systems extend the life of the equipment and their spare parts are also easily available in the markets.

As the HPLC system consists of various parts therefore it is important to check the specification of each and every part to ensure that the system would work efficiently. The isocratic pump can be checked for maximum working pressure, flow rate range, reproducibility and accuracy, pulsation, pressure monitoring and over pressure shut off function. However for gradient pump the gradient reproducibility and accuracy as well as delay volume need to be considered. Whether the used HPLC equipment is proper or not can also be judged by the pump pressure as it reflects the status of column and the system. A very low pressure indicates leak in the system and a high pressure tells about the blockage in the column or tubing. If the pressure fluctuates widely then it may mean that the pump inlet is blocked or the inlet valve in malfunctioning. It is advisable to keep an eye on the pressure while the instrument is running.

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