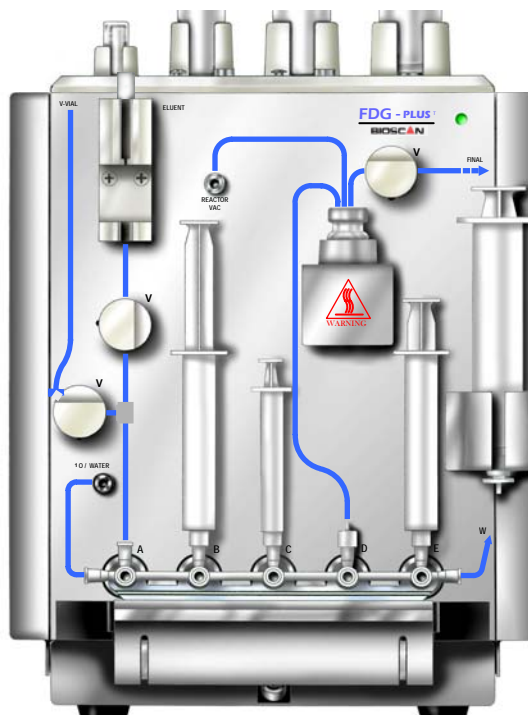




**Now there is a real choice!**

**Introducing automated FDG synthesis  
from Bioscan... *FDG-Plus*™**



- Consistent, high yield
  - Lower operating cost
  - Disposable, sterile kit
  - Smaller footprint
  - Easy to run
  - Self-test with diagnostics
-

## Reliable Chemistry

Bioscan's new FDG synthesizer uses the same, tested chemistry currently used in labs around the world. After installing hundreds of FDG synthesis systems manufactured by others, Bioscan is now able to use our experience and knowledge to help solve the common complaints from the FDG production lab. In answer to the needs of the FDG production lab, our number one objective has been better reliability of the system.

## Consistent Yield

Reliability translates to consistent yields from day to day. Bioscan's FDG synthesizer consistently returns yields of **55-60%** (EOS) with a synthesis time of **~30 minutes**. Consistency and trouble-free operation is assured by easy-to-use disposable hardware kits, self-guiding operating instructions, and complete pre-run testing of both the system and the hardware kit before each run.

## Low Operating Cost

Bioscan hardware kit costs are less than half of that for other disposable systems. Users can decide to use pre-packaged chemicals available from suppliers or to use their own bulk reagents. Similarly, users can decide to prepare their own trapping and purification cartridges or use the cartridges supplied by Bioscan, including a pre-conditioned and dried QMA trapping cartridge.

## Self-test with Diagnostics

The operating software includes routines with full testing of the synthesis system hardware – valves, vacuum, pressure regulation, heating, & cooling. Once the hardware system is checked and the disposable kit is installed, the operating software runs another complete test which checks that all of the kit connections are tight and that the connections have been properly made. Unique to the Bioscan system is when the system detects a problem, it not only reports it, but also provides advanced trouble-shooting suggestions for correcting it.

## Post-run Cleaning

Once the FDG production run is finished, the system initiates a cleaning sequence which removes remaining radioactivity from both the hardware kit and box. After cleaning, less than 0.1% of the total activity is left on the hardware kit, so that even with a starting activity of 10 Ci, the kit can be safely removed in preparation for the next run. Bioscan's FDG synthesizer is now able to offer true multi-run capability.

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