



TOSOH

Tosoh Automated Glycohemoglobin Analyzer HLC-723G8

MONOGRAPH

Pacific Diagnostic Laboratories and Sansum Clinic in Santa Barbara, CA

Sansum Clinic is one of the oldest and largest clinics between Los Angeles and San Francisco on the coastline of California. By providing advanced diagnostic technologies and a quality environment for their patients, they are recognized for their commitment to the best practice of medicine. Sansum has over 160 staff physicians who represent more than 30 medical specialties.

History of Diabetes Research

Sansum Clinic was founded in 1928 by William David Sansum, MD with the intent to "study and eventually conquer diabetes." Dr. Sansum was a pioneering researcher, the first American to successfully isolate, produce and administer



insulin to treat diabetes. He came to Santa Barbara in 1920 as the director of the Potter Metabolic Clinic at Cottage Hospital, where he specialized in research into the treatment of diabetes. At that time, diabetes was a fatal metabolic disease and Dr. Sansum dedicated himself to discovering cures for such diseases through scientific research.

HbA1c Monitoring

Sansum Clinic measures HbA1c to monitor patient compliance and the result of treatment. There is a pay for performance reward system that benefits those who maintain a healthy HbA1c level. Patients that fall outside the established criteria receive aggressive follow up by the endocrinology department.

Pacific Diagnostic Laboratories is Sansum Clinic's exclusive provider of HbA1c results. They have been using Tosoh Bioscience's Automated G7 HPLC Analyzer since 2001. The laboratory has also served as a beta-site for the newest Tosoh HPLC Analyzer, the G8.



Pacific Diagnostic Laboratories Chemistry Manager, Cooper Ellsworth and Technician, Rebecca Freedain review a G8 Chromatogram.

TOSOH BIOSCIENCE, INC.

G8 HPLC ANALYZER



Gold Standard Accuracy by Ion-Exchange HbA1c

- HbA1c analysis time in 1.6 minutes
- Direct determination of stable HbA1c
- Less than 2% CVs
- Simple touch-screen operation
- Compact footprint - 21" h x 20" w x 19" d
- NGSP certified
- Low maintenance
- Flexible tube sizes
- 90 Sample Loader
- Optional 290 Sample Loader available

*For more information about
Tosoh's G8 HPLC Analyzer,
call (800) 248-6764 or visit
www.tosohbioscience.us*

G8 HPLC Analyzer at Pacific Diagnostic Laboratories

Pacific Diagnostic Laboratories (PDL) was very pleased with the HbA1c results on the G7 with a turn-around-time of 2.2 minutes per sample. Even though the HbA1c level is not considered a STAT test, the newer G8 speed of 1.6 minutes becomes a considerable improvement when processing over 150 samples/day.

"We are not tied to any one manufacturer - we acquire the best instruments for our laboratory's needs", says Cooper Ellsworth, Clinical Chemistry Manager. "While we don't have many abnormal samples concerning hemoglobinopathies, we want to see them when they are present. HPLC is simply the best way to perform A1c testing."

Cooper Ellsworth also had this to say regarding the G8. "The G8 is so small we were able to fit it in without having to make any changes to existing workspace. Speed, compact size, reliability-Tosoh's HPLC instrumentation does not go down. We are running ~150 injections/day and the G8 performs an analysis in 1.6 minutes, so it is quick." The within run precision performed at PDL yielded a CV of 0.3%. "It sure is hard to top that!"

PDL liked the upgraded G8 user interface. Lynn Raber, Clinical Laboratory Scientist at PDL mentioned, "We like the touch screen and the help menus. The new Home Key is nice because you don't have to exit out of screens."

When Tosoh asked what was the most common complaint with regards to the G8, Cooper Ellsworth answered with the following words, "Hard to believe, but absolutely none!"



*Clinical Lab Scientist
Lynn Raber appreciates the
G8's intuitive operation..*



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