![SHIMADZU - Excellence in Science]

Liquid Chromatograph

P-Series

P-Series

Proven Performance with Productivity

Environment

Chemicals

Food

Pharma

Proven
Industry proven capabilities with compliance and ease of use

Performance
Superb system performance ensures exceptional reliability and flexibility

Productivity
Rugged system design guarantees higher efficiency and maximum productivity

Key Features

Packed with industry proven capabilities, P-Series provides established and accessible solution for your regular liquid chromatographic needs.

Rugged system design maximizes productivity and performance ensuring reliable and reproducible results are delivered in time, which translates into higher Return on Investment.

Solvent Delivery System

The LC-20AD offers the fastest solvent delivery performance in the world. With **an automatic pulsation-correction mechanism and high-speed micro plunger driving**, it achieves **pulse-free solvent** delivery

• **Accurate gradient solvent delivery**

Detector

Experience highly sensitive measurement and stable analysis through the entire wavelength range. **Noise and drift are minimized** by the fully temperature controlled optical system and flow cell. The **signal-to-noise ratio is enhanced** by an improved optical system and a high-order digital filter

• i-PDeA | Intelligent Peak Deconvolution Analysis
• i-DReC | Intelligent Dynamic Range Extension Calculator

Autosampler

The SIL-20AC HT is a total volume injection-type autosampler that enables high-speed injection and multi-sample processing.

• **Precise sample injection**
• **Sample Carryover Reduced to an Absolute Minimum**

Column Oven

Large capacity oven compartment with **Precise Temperature Control** at sub-ambient temperature
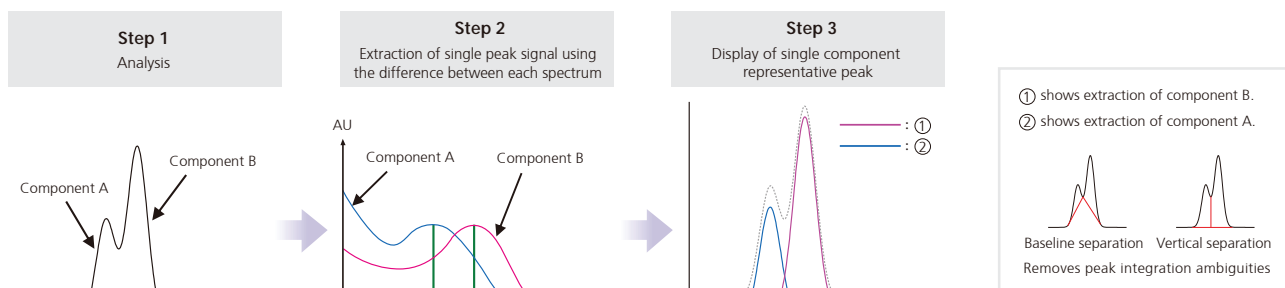
Detection Mode

i-PDeA | Intelligent Peak Deconvolution Analysis

Enables the extraction of a single peak from co-eluted peaks by utilizing differences in spectra. The new separation method removes discussion of integration methods for co-eluted peaks. The also helps detect impurity peaks in a target peak. i-PDeA also helps detect impurity peaks in a target peak.

CLICK HERE

Step 1	Step 2	Step 3
Analysis	Extraction of single peak signal using the difference between each spectrum	Display of single component representative peak

① shows extraction of component B.
② shows extraction of component A.

Baseline separation   Vertical separation
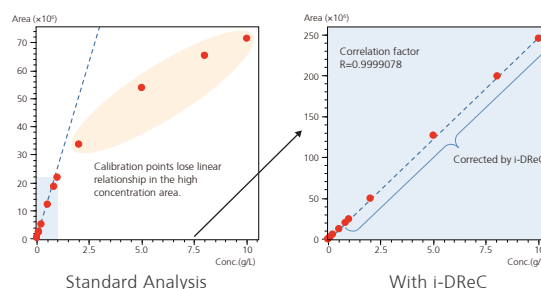Removes peak integration ambiguities

i-DReC | Intelligent Dynamic Range Extension Calculator

The i-DReC dramatically extends the linear dynamic range of calibration curves, enabling reliable quantitation of high concentration samples without need for sample dilution and reinjection, which would otherwise be required
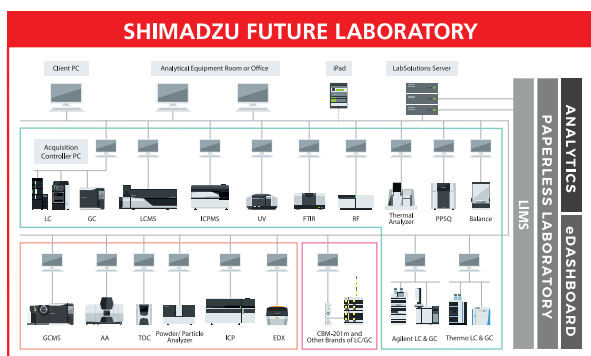
CLICK HERE

Calibration points lose linear relationship in the high concentration area.

Correlation factor R=0.9999078

Corrected by i-DReC

Standard Analysis   With i-DReC

Integrated Informatics Biosphere

Completely expandable Informatics Biosphere which can range from connecting one chromatographic instrument to integrating entire lab.

SHIMADZU FUTURE LABORATORY

Compliance
- Centralized Data Security and Administration
- Lab process coverage from sample management to COA
- Electronic signatures for paperless environment

Ease of Use
- Connect different types of instrument
- Remote Access and Operation
- Data process and review from any PC in the network

CLICK HERE

SHIMADZU

Shimadzu (Asia Pacific) Pte Ltd.

www.shimadzu.com.sg/an