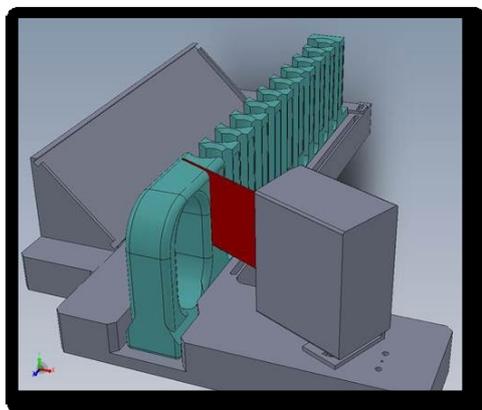# SCIROBOTICS

BuffyEx™: Buffy Coat Separation & Extraction for Tecan Robots

Automatically identify and separate blood samples fractions in tubes with complete sample tracking

Blood fractionation and specifically buffy coat extraction are important but labor intensive tasks. In some industries, such as biobanks, they are carried out on a daily basis. Moreover, automatic and efficient sample tracking are crucial when dealing with human samples. Current automatic solutions are bulky, expensive and slow and tend to be utilized only in larger labs processing hundreds of samples a day. Yet many smaller labs could benefit from a cost-effective solution for small scale automatic blood fractionation coupled with sample tracking.
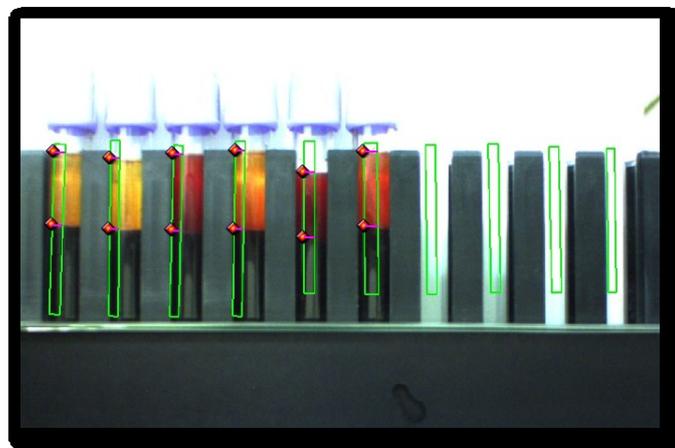

Product Description:

SciRobotics' BuffyEx™ is a module for Tecan EVO which allows blood fractionation quickly on a small set of whole blood tubes. Utilizing computer vision algorithm and a high quality camera, it identifies the fractions in the sample. The fractions are separated and moved into target tubes automatically. The BuffyEx™ smart user interface allows the user to verify the fraction analysis and to load several batches of tubes for the same run. Sample barcodes are also read from the tubes and saved and the system can be integrated into existing Lab Information Systems. The system is compact enough to fit on an Evo75 and contains no moving parts, making BuffyEx™ a truly cost-effective solution.

Features:

- Camera and computer vision algorithms quickly analyze 10 tubes simultaneously (batch).
- Any number of batches can be loaded and processed in the same run.
- Integrated barcode reader for complete sample tracking from tube barcode.
- Easy calibration.
- Identify any number of fractions in a sample (e.g. with or without buffy coat).
- Works under variable lighting conditions.
- Allows user interactions and verification at any point.
- The most cost effective solution for buffy coat separation.

Package Includes:

- **Industrial high-resolution camera** with Mega Pixel computer vision lenses.
- **Carrier** for tube rack adapted to Tecan EVO worktable.
- **Tube Rack** for holding 10 sample tubes.
- **Integrated Barcode Reader** for reading sample tubes.
- **Software package.**

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