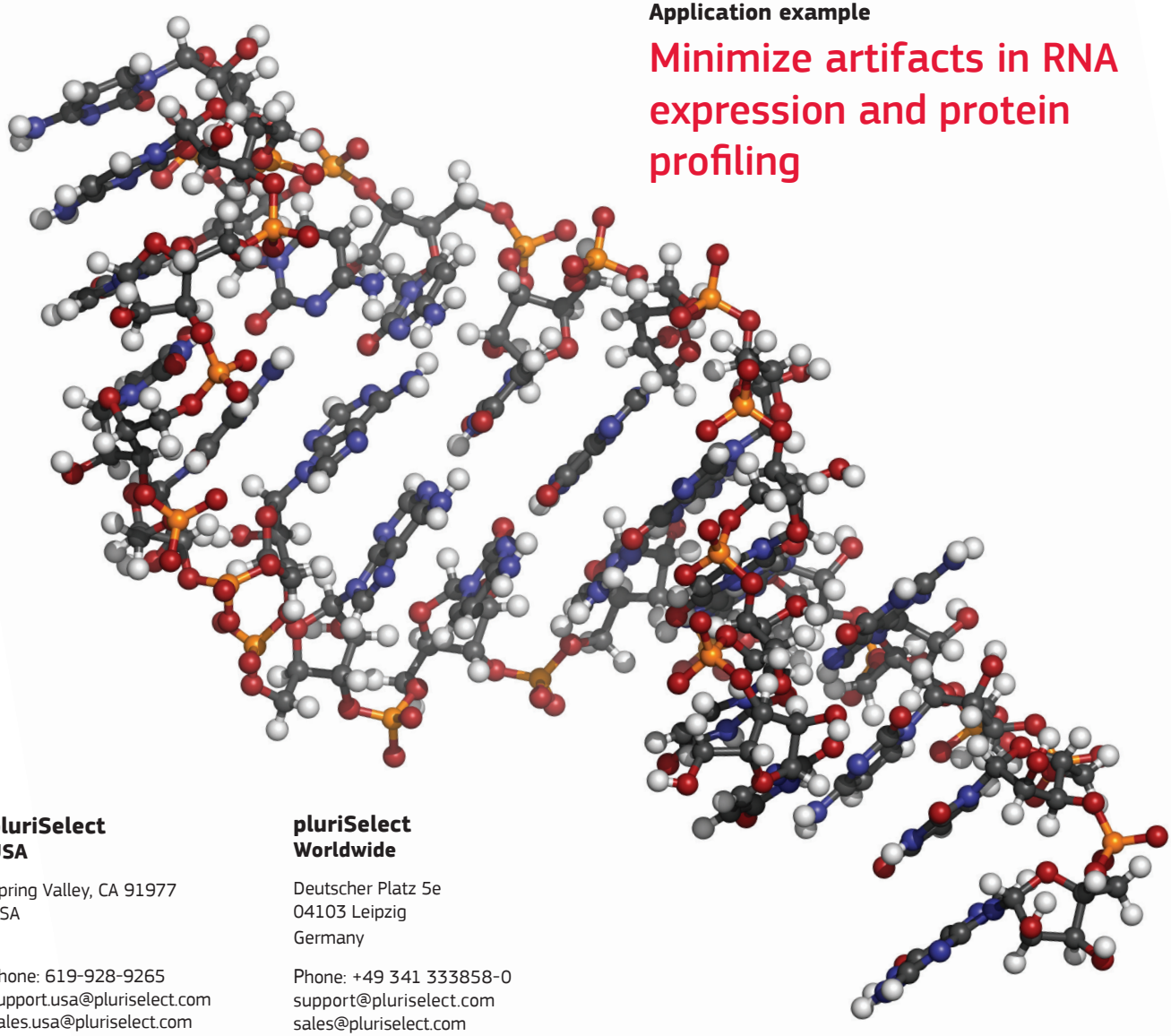
FAST, EASY, GENTLE!

pluriBead®

Application example

Minimize artifacts in RNA expression and protein profiling



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V 1.0

pluriSelect

Minimize artifacts in RNA expression and protein profiling

Introduction

Current cell separation methods can take up to two hours and need multiple centrifugation steps and temperature shifts.

With the pluriBead® kits, you can isolate specific cell types directly from whole blood. You can work at room temperature (and even at 37°C) without centrifugation and stabilize the RNA and proteins in less than 10 minutes. This will minimize the artifacts in your analysis.

Tested lysis buffers

Trizol®, Qiagen RLT® buffer, Promega lysis buffer, Invitek cell lysis buffer, Ambion lysis buffer, PAXgene® and RNAlater®.

What is different to standard cell separation with pluriBead®?

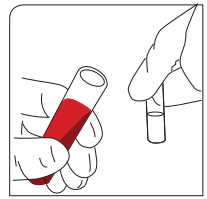
If you want to use your target cells for RNA expression analysis, you don't need to detach them from the pluriBead® particles. Simply add a suitable lysing buffer and follow the protocol for your downstream experiment.

Use a pluriBead® kit to get started.

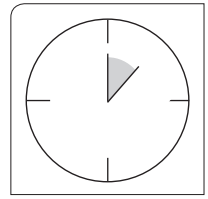
	Magnetic separation	pluriBead®
Application in whole blood	+/-	Yes
Specific cell isolation	Yes	Yes
Pre-treatment of whole blood	Yes	No
Time to receive lysed cells	30 - 120 minutes	<10 minutes
Centrifugation steps	1 - 7	0
Isolation of exosomes	No	Yes
Gentle use at room temperature or 37°C	No	Yes

Less than 10 minutes needed for isolated and lysed cells. See video tutorial on our website: www.pluriselect.com

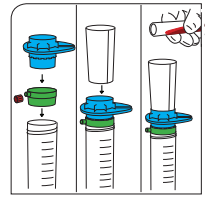
Protocol for pluriBead® cell isolation with subsequent RNA stabilization



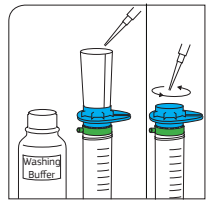
Add pluriBead® to your sample



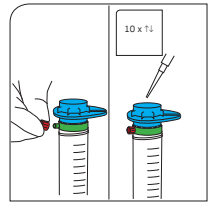
Incubate 4 - 6 minutes



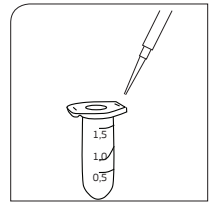
Add sample onto separation device



Wash and discard funnel, wash pluriStrainer®



Close Luer-Lock and add lysis buffer



Transfer lysed cells into tube

Figures

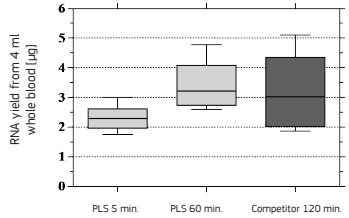


Fig. 1

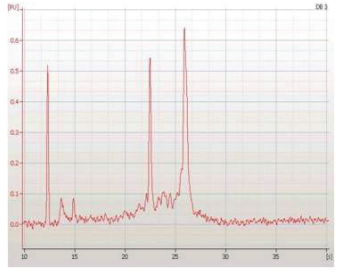


Fig. 2

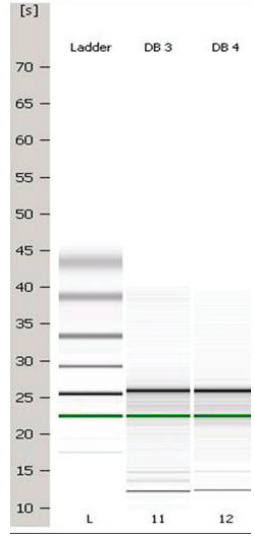


Fig. 3

Fig. 1: Comparison of pluriSelect® (PLS) with column technology
Fig. 2: Agilent® RNA integrity analysis
Fig. 3: Agilent® RNA integrity analysis