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<https://izon.nt-rt.ru> || inz@nt-rt.ru

Изоляционная колонка qEVsingle Gen 2

qEVsingle Gen 2 Columns: Now Available



The smallest qEV column has joined the Gen 2 ranks.

Tuesday 24th May, 2022. The Gen 2 range has grown again, with the addition of qEVsingle Gen 2 columns.

Optimised for a 150 µL loading volume, qEVsingle Legacy columns are widely used for the size-based separation of low-volume biological samples.

Now, EV researchers can benefit from the enhanced separation provided by qEVsingle columns made using Izon's high-performing Gen 2 resin.

As has been established for other columns in the range, including the [qEVoriginal](#), [qEV1](#), and [qEV10](#), samples separated using the qEVsingle Gen 2 show far better resolution than their predecessors, the Legacy columns.

The enhanced resolution of Gen 2 columns is an advantage for the separation of soluble, contaminating protein from extracellular vesicles (EVs) and similarly sized particles; depending on the downstream analysis of choice, researchers may wish to alter the collected volumes in a way that changes EV-protein proportions and subsequently prioritises EV concentration, EV recovery, or EV purity.

Overall, EV-containing volumes can be obtained with higher purity (Figure 1 and 2) without compromising EV concentration (Figure 3).

As the only column designed for single use, the qEVsingle is commonly used for RNA-based studies. Like all qEV columns, qEVsingle columns are available in two types: the 35 nm and 70 nm series, which have different optimum recovery ranges (35 - 350 nm and 70 - 1000 nm, respectively).

Together with the Automatic Fraction Collector, qEV columns deliver rapid, precise and consistent separation of extracellular vesicles - important considerations for reproducible research and the scale-up of EV-based diagnostic tests.

EV-to-protein ratio in qEVsingle columns: Legacy vs Gen 2

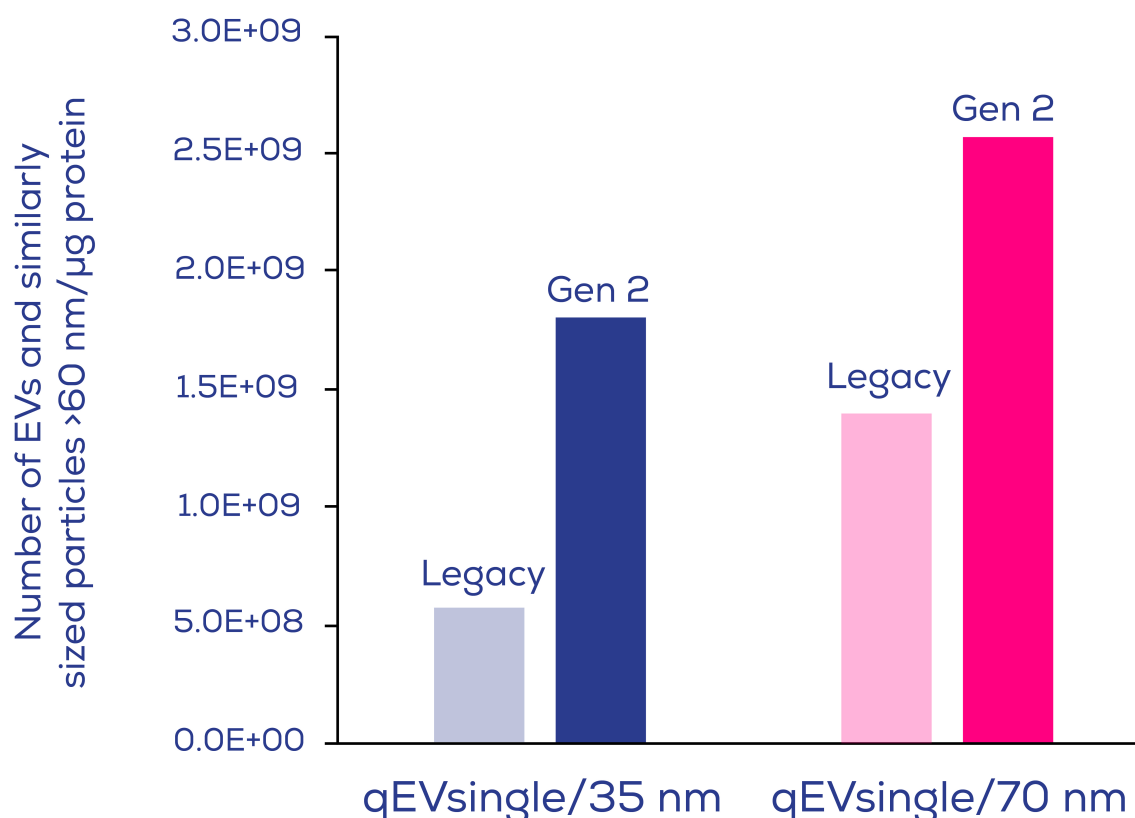


Figure 1. Number of extracellular vesicles (EVs) and similarly sized particles (> 60 nm) per microgram of protein, as measured in human plasma by tunable resistive pulse sensing (the Exoid) and bicinchoninic acid (BCA) assay, respectively. EVs and protein were measured in pooled volumes collected via the Automatic Fraction Collector, using default buffer volumes established for qEVsingle columns.

Protein removal in qEVsingle columns: Legacy vs Gen 2

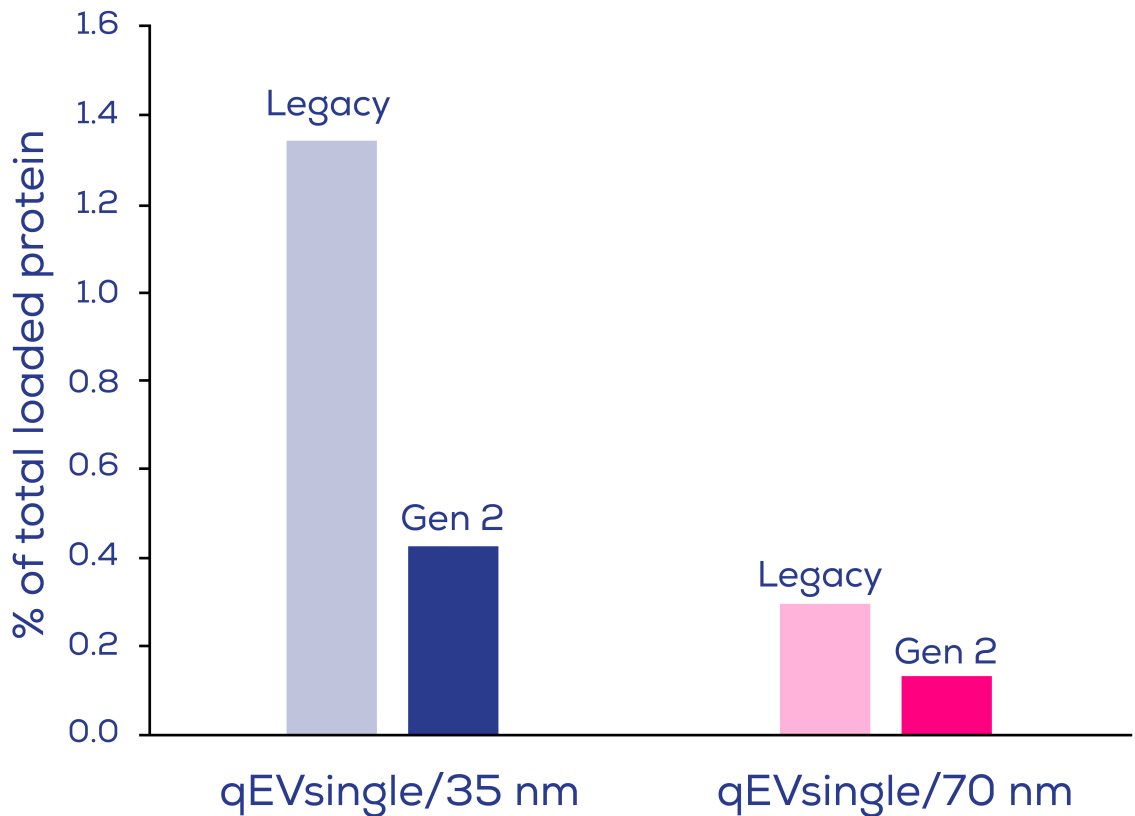


Figure 2. Protein present in pooled collection volumes of human plasma separated using qEVsingle columns. Protein was measured via bicinchoninic acid (BCA) assay before and after samples were separated using the Automatic Fraction Collector and default buffer volumes established for qEVsingle columns.

Gen 2: Improved purity without compromising on EV concentration

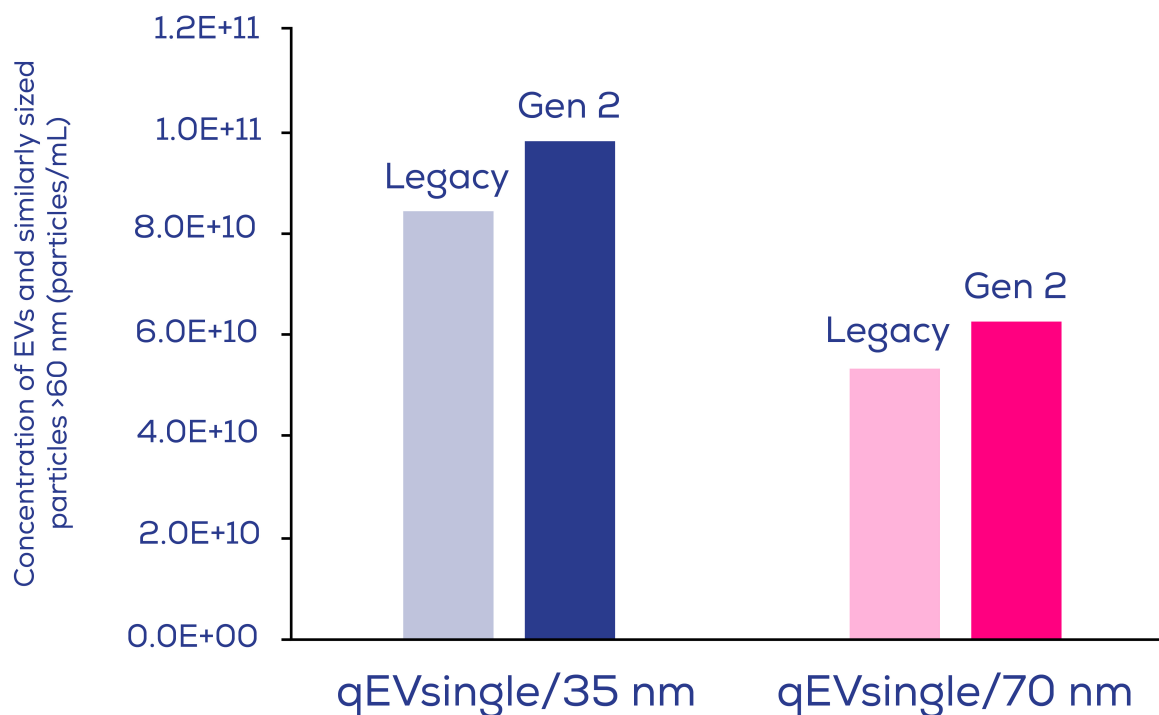


Figure 3. Concentration of extracellular vesicles (EVs) and similarly sized particles (> 60 nm) in human plasma, as measured by tunable resistive pulse sensing (the Exoid). Particles were measured in pooled volumes collected via the Automatic Fraction Collector, using default buffer volumes established for qEVsingle columns.

The qEVsingle Gen 2 columns are now available on the [izon store](https://izon.store) in both the [35 nm series](#) and the [70 nm series](#).

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