

# ExoELISA-ULTRA™ Complete Kit



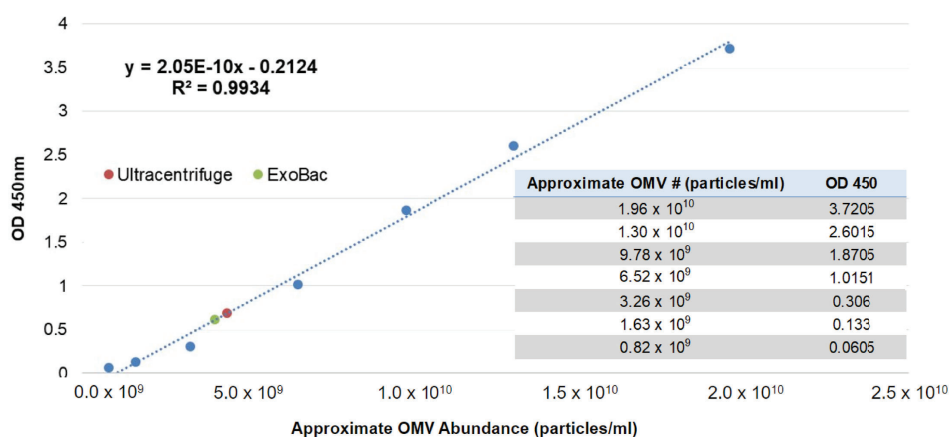
## GroEL, For *E.coli* OMV Detection

**New!**  
2023

### Delivering ELISA-based OMV quantitation ULTRA fast:

The ExoELISA-ULTRA™ GroEL Kit is brought to users as the first and only kit for easy quantitation and characterization of OMVs from *E. coli*, with supreme sensitivity of OMV detection - as low as 0.5 µg protein equivalent - and a total assay time of only 4 hours.

Configured for detection of *E.coli* OMVs, an OMV associated molecular chaperonin GroEL was selected as the bacterial OMV marker. The ExoELISA-ULTRA™ GroEL detection assay is based on an ultra-sensitive direct capture colorimetric ELISA that is compatible with OMVs isolated from *E. coli* culture by common OMV isolation methods. To enable quantitation of OMVs carrying GroEL in your target sample, the kit includes an internal standard calibrated to OMVs isolated with different OMV isolation methods that have been analyzed by nanoparticle tracking analysis (NTA). This assay is also predicted to work with OMVs derived from *Shigella dysenteriae* and *Salmonella enterica*.



### Highlights

- **Sensitive** - detect as little as 0.5 µg protein equivalent
- **Fast** - complete in less than 4-hours; no more overnight incubation
- **Flexible** - compatible with common OMV isolation methods (e.g. ExoBacteria™ OMV Isolation Kit, ultracentrifugation) from *E.coli* culture
- **Quantitative** - calibrated internal standards enable quantitation of OMVs carrying GroEL
- **Sample-saving** - requires significantly low sample amount, leaving more for other downstream applications

Catalog Number	Description	Size
EXEL-ULTRA-GroEL-1	ExoELISA-ULTRA Complete Kit (GroEL, For <i>E.coli</i> OMV Detection)	96 Reactions

**Figure 1.** ExoELISA-ULTRA™ GroEL standard curve shows robust linearity down to  $\sim 0.82 \times 10^9$  OMVs. OD 450 nm values of OMVs isolated with common OMV isolation methods (Ultracentrifuge and ExoBacteria™ OMV Isolation Kit) fall well within the standard curve for the assay.



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