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INNOVATOR INSIGHT

Supplementary Material

Disruptive bench-scale purification of lentivirus using affinity-liquid phase separation technology

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→ FIGURE S1 Calculated functional titers comparing (A) IsoTag™ LVto two competing products, PEG-it™ and Mag4C-LV, (B) capture from different feed streams, and (C) capture from different starting volumes. (D) LV recovery concentrating 50 × using IsoTag®LV. (E) Calculated functional titers comparing experience level of the reagent user. n=2-6, error bars represent the standard error of the mean. В IsoTaq®LV PEG-it™ Mag4C-LV Suspension-5.0×10⁷ Adherent-0.0 НЙL НЙL 10⁶ 10⁹ HML HML 10⁷ 10¹⁰ 10⁸ Titer (TU/mL) Crude Lentivirus Harvest Starting Titer 100 Experienced 50mL User 60 | \ | | | 40 Novice 1mL 20 10¹⁰ 10¹⁰ 10⁷ 10⁹ 10⁷ 50X IsoTag®LV 10⁹ Titer (TU/mL) Titer (TU/mL) Concentrated



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→ FIGURE S2 Calculated functional titers comparing LV titer with and without the addition of IsoTag™ LV after (A) up to 4 weeks at 4 °C, (B) 6 hours at 20-25 °C, (C) 2 hours at 37 °C, and (D) after 5 freeze-thaw cycles. n=2-3, error bars represent the standard error of the mean. IsoTag®LV LV LV 2.0×108 IsoTag®LV 1×10⁸ 8×10⁷ Titer (GFU/mL) Titer (GFU/mL) 1.5×10⁸ 6×10⁷ 1.0×10⁸ 4×10⁷ 2×10⁷ 5.0×10⁷ Stating That Ambient Ambient 2 3 4 Ó 2 3 Weeks at 4°C 2.0×10⁸ IsoTag®LV LV 2.0×10⁸ LV IsoTag®LV 1.5×10⁸ Titer (GFU/mL) 1.5×10⁸ 1.0×10⁸ 1.0×10⁸ 5.0×10⁷ 5.0×10⁷ Stating That જુ 3°C 0 1 2 3 4 5 0 1 2 3 4 Freeze/Thaw Cycles

