

### Large scale production of lentiviral tools

Vectalys offers customized lentiviral vectors at a large scale (>10 ml) in Vectalys Premium quality. This offer allows to meet our customer needs from basic research to pre-clinical assays.

# CROSS THE GAP BETWEEN BASIC RESEARCH TO CLINICAL ASSAYS

Same purity, same titer, from small to large scale lentiviral vector productions.



With highly pure and concentrated lentiviral vectors, you can count on:

- The same premium vector composition from research to clinical assays
- Early-on research assessment of the **right vector dose** for therapeutic effect
- The **same batch** for multiple research and pre-clinical assays
- Reduced cost per batch

#### 1. Applications of large scale lentiviral vector production

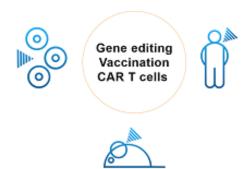
The emergence and popularity of lentiviral vectors in pre-clinical and clinical research brings pharmaceutical companies to consider large volumes of lentiviral vectors. <u>Applications:</u> inherited genetic diseases, CART cells or gene editing based therapies. These applications are bringing new hopes to cure cancer or rare diseases:

- Pre-clinical gene therapy assays (immunotherapy, gene editing, inherited genetic diseases)
- Animal diseases modelling (vaccination, metabolic disorder, other models...)
- High-throughput screening





#### Use the same batch quality from research to clinical applications



#### VECTALYS PREMIUM QUALITY

Titer	PP/TU	Specific	Protein	Cell
	ratio	activity	removal	types
>1E9 (TU/ml)	<300	>1E8 (TU/mg protein)	>98%	Primary & stem cells

## Estimated number of transduction experiments you can expect with each volume:

HEK293T	T lymphocytes	/	HEK293T	T lymphocytes
5000 assays*	2000 assays**	>30ml	2000 assays*	800 assays**
HEK293T	T lymphocytes	1-10ml	10-30ml	
200 assays*	80 assays**			

<sup>\*:</sup> Into 6 well plates containing 25 000 cells/cm3 with lentiviral batch at 1E9 TU/mL

The image above represents an estimated number of transductions one could perform with each scale of lentiviral vector batches, on HEK293T and T lymphocytes. For example, a single 25ml batch of highly purified and concentrated lentiviral vectors, allows to perform 5000 transductions of HEK293T cells.



 $<sup>^{**}</sup>$ : Into 24 well plates containing 500 000 cells/ml with lentiviral batch at  $1^{E}9$  TU/mL