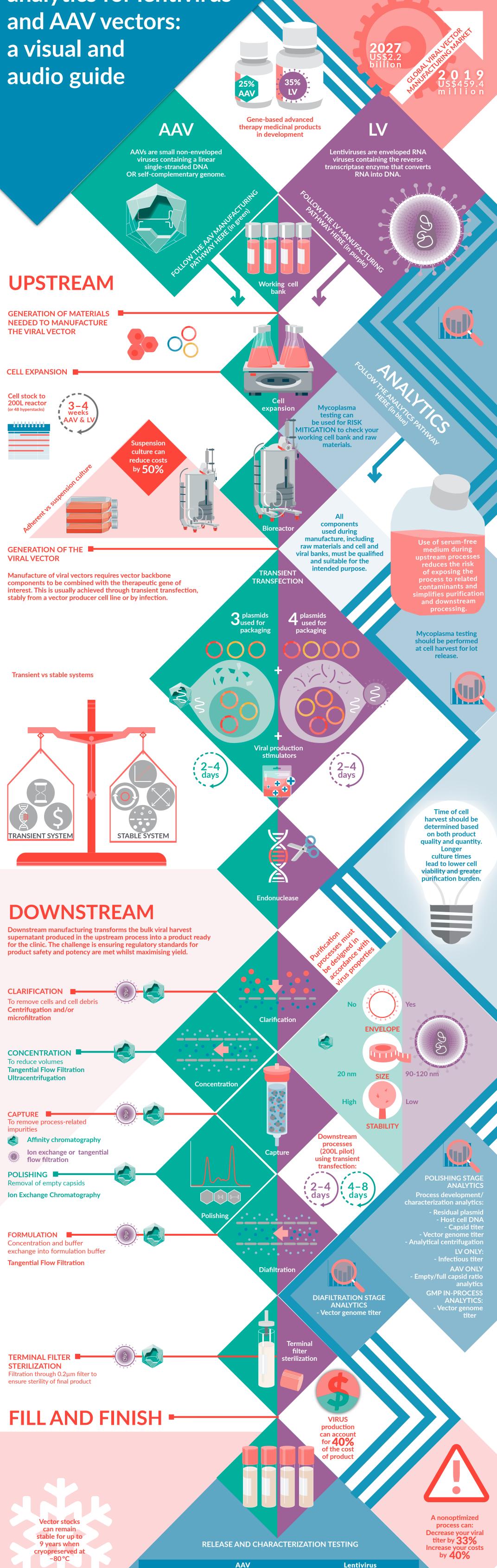
Manufacturing and analytics for lentivirus

With the successful translation of cell and gene therapies into the clinic, demand for viral vectors has increased significantly. As a result, the need for scalable, cost-effective viral vector manufacturing processes, and improved methods of purification and analytics, has become apparent. Here we show the manufacturing processes and analytics for adeno-associated virus (AAV) and lentivirus (LV) side by side.



CELL INSIG

	ldentity	Capsid/serotype ID Transgene ID	Transgene ID Envelope protein ID (VSV-G)	
	Strength	Viral genome titer Total viral particles	Infectivity P24 ELISA	
	Potency	Infectious titer Functional analysis	Infectious titer Insert stability Functional analysis (i.e., protein assay)	
	Purity	Host cell protein Host cell DNA Residual BSA Residual endonuclease Residual ligand Residual plasmid Residual transfection reagent Residual detergent Genome integrity Protein purity Aggregation Empty/full capsid ratio	Host cell protein Host cell DNA Residual BSA Residual end Residual plasmid Residual transfection reagent Protein purity Aggregation	
	Compendial assays	Appearance pH Osmolarity	Appearance pH Osmolarity	
	Safety	Absence of adventitious viruses Absence of replication-competent viruses Sterility Mycoplasma Endotoxin Bioburden	Absence of adventitious viruses Absence of replication-competent viruses Sterility Mycoplasma Endotoxin Bioburden	In partnership with
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