Microscopy to check for residual beads. Potency: Release of Lentiviruses, or oncolytic viruses. Functional and potency of CAR, qPCR, and cell viability test. Impurities: flow cytometry for viable T-cell percentage. Transduction efficiency is tested by CAR, qPCR, and cell viability test. Identity: PCR strength includes cell count and viability, physical titer ddPCR.

Purity: Testing includes residual Benzonase, Triton testing. For potency, testing includes transgene presence, next-generation sequencing, and restriction enzyme mapping. Identification is done with cell line identification, Sanger sequencing, and restriction enzyme mapping. EudraLex Vol. 4, 'Guidelines on Good Manufacturing Practice specific to Advanced Therapy Medicinal Products'.

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