

Design for sustainability (DfS) scorecard



With our DfS scorecard, we drive sustainability improvement during the product development process through multiple product sustainability criteria divided into seven impact areas.

Benzonase® Salt Tolerant EMPROVE® EXPERT

Enabling higher AAV production yield in order to reduce raw material usage



Impact areas

Results



MATERIALS

Using salt tolerant nucleases to break up residual DNA fragments enables the use of higher salt concentrations during bioproduction which increases titers and viral potency up to 10-fold, leading to reduction in materials needed to produce the desired amount of viral vectors



SUPPLIERS & MANUFACTURING

Manufacturing partner participates in *Together for Sustainability* with a Bronze EcoVadis rating



PACKAGING

New packaging uses a fiber-based canister with a sustainable forestry certification a polyethylene bag, eliminating the previously used metal canister and foam packaging



ENERGY & EMISSIONS

No change compared to baseline product in consideration of our DfS criteria



WATER

No change compared to baseline product in consideration of our DfS criteria



USABILITY & INNOVATION

No change compared to baseline product in consideration of our DfS criteria



CIRCULAR ECONOMY

Compared to baseline, manufacturing yield is improved by 2x thanks to reduced purification steps

Baseline product: *Benzonase® Endonuclease Safety Plus EMPROVE® Expert (103773)*

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