

Comparison of our quality grades

	Research grade	CCC grade basic	CCC grade classic	High Quality grade*	GMP grade
Applications <div style="position: absolute; top: 10px; left: 10px; border: 2px solid orange; padding: 5px; transform: rotate(-2deg); font-weight: bold; color: orange;"> AVAILABLE IN LARGE SCALE! </div>	Kit alternative for basic research	Optimized, highly efficient DNA for basic research, pre-clinical and toxicology studies	Optimized, highly efficient for basic research, pre-clinical and toxicology studies, enzyme-free	DNA starting material for early clinical phase GMP production of e.g. AAV, CAR-T cells or mRNA vaccines	DNA of highest quality as starting material for clinical phases and market supply or DNA for direct human application
Characteristics					
Produced by fermentation	☑	☑	☑	☑	☑
Guaranteed amount of plasmid DNA	☑	☑	☑	☑	☑**
Adjustment of DNA concentration included	☑	☑	☑	☑	☑
Customized filling included	☑	☑	☑	☑	☑**
Certified quality incl. QC report	☑	☑	☑	☑	☑
Storage of glycerol stock and retain samples for repeat orders	☑	☑	☑	☑	☑
Antibiotics-free fermentation	☑	☑	☑	☑	☑
Cultivation media according to EMA/410/01 rev.3, 2011/C 73/01 (TSE/BSE certificate)	☑	☑	☑	☑	☑
All raw materials according to EMA/410/01 rev.3, 2011/C 73/01 (TSE/BSE certificate)			☑	☑	☑
Completely enzyme-free			☑	☑	☑
Characterized and documented cell bank and pilot cultivation				☑	☑
Verified removal of bacterial endotoxins (LPS assay)	☑	☑	☑	☑	☑
Removal of RNA and proteins	☑	☑	☑	☑	☑
Specific removal of bacterial chromosomal DNA and oc-forms		☑	☑	☑	☑
CGE analysis (ccc-supercoiled vs. oc plasmid topologies)		☑	☑	☑	☑
Extended specification			☑**	☑	☑
Documentation according to GMP/GMP principles				☑	☑
Dedicated lab				☑	☑
QM system applied				☑	☑
Spatially separated upstream and downstream processes				☑	☑
Single use equipment					☑
Compliant with applicable GMP-guidelines and GMP certified					☑

*HQ: High Quality grade is produced in accordance with EMA guideline CHMP/BWP/2458/03 as the highest non-GMP quality standards | **On request