

## Competitive Comparison of JETSTAR 2.0, JETSTAR 2.0 / LFU and Qiafilter

Specification	JETSTAR 2.0	JETSTAR 2.0 / LFU	Qiafilter
Technology	<b>Anion-exchange chromatography</b>	<b>Anion-exchange chromatography</b>	Anion-exchange chromatography
Type of procedure	<b>Gravity-flow columns</b>	<b>Gravity-flow columns</b>	Gravity-flow columns
Preparation of Cleared Lysate	<b>Alkaline Lysis</b>	<b>Alkaline Lysis</b>	Alkaline Lysis
Time to prepare Cleared Lysate (From resuspension of <i>E. coli</i> cells to mixing with neutralization buffer E3)	<b>approx. 7 min</b>	<b>approx. 7 min</b>	approx. 7 min
Clarification of lysate	Centrifugation (takes 10 min + handling)	<b>LFU (Lysate Filter Unit) (takes 0 min + no handling!!)</b>	Filter syringe (takes 10 min + handling)
Convenience of clarification procedure	<b>Easy</b>	<b>Very easy, very quick!</b>	Handling of syringe necessary, syringe tends to clog.
Time MIDI column procedure	<b>30-45 min</b>	<b>20-25 min</b>	> 1 h
Time MAXI column procedure	<b>30-35 min</b>	<b>30-35 min</b>	> 1 h
Column flow	<b>Homogeneous</b>	<b>Homogeneous</b>	Variable
Reproducibility	<b>Yes</b>	<b>Yes</b>	Variable
DNA Yield MIDI	<b>Up to 200 µg</b>	<b>Up to 200 µg</b>	100 µg
DNA Yield MAXI	<b>Up to 1 mg</b>	<b>Up to 1 mg</b>	500 µg
Plasmid Size	<b>All Sizes</b>	<b>All Sizes</b>	All Sizes

Plasmid Quality	<b>Ultrapure</b>	<b>Ultrapure</b>	Very pure
DNA suitable for:			
Automated Sequencing	<b>Yes</b>	<b>Yes</b>	Yes
Transfection	<b>Yes</b>	<b>Yes</b>	Yes
Microinjection	<b>Yes</b>	<b>Yes</b>	Yes
Very sensitive applications	<b>Yes</b>	<b>Yes</b>	„Endofree“-kit required
Endotoxin Content (EU/μg DNA)	<b>&lt;0.1</b>	<b>0.01 – 0.03</b>	1.2