

High-Q™ -Spin-Column Plasmid DNA Purification Kit

PROBLEMS	POSIBLE REASONS	SOLUTIONS
Spin Column is clogged		
	Sample is too viscous	Use a lower volume
Low or no yield of plasmid DNA		
Incorrect Preparation of WB2 Buffer		
	WB2 Buffer was not mixed with Absolute Ethanol before use it.	Add the volume indicated of Absolute Ethanol (CAS 64-17-5). Repeat the extraction with a new sample.
	Volume of Absolute Ethanol was added at incorrect percentage	Make sure the correct volume of Absolute Ethanol (96-100%) had been added. Repeat the extraction with a new sample.
Incomplete Lysis		
	Cell pellet has not been completely lysed.	Pellet must be completely resuspended before addition of BP2 Buffer.
	Culture volume used is larger than recommended (~3 mL).	Scale up BP1-BP3 Buffers.
Inefficient Elution of DNA		
	Elution Buffer or Water is not absorbed completely by the Spin Column.	Deliver Elution Buffer or water directly to center of Spin Column. After then, incubate the Spin Column at RT for 2 minutes.
	Elution Buffer or Water is not preheated at 70°C.	In the elution step, use Elution Buffer or Water preheated at 70°C.
	Water for elution has an acidic pH.	Check Water pH is between 7.5-9.0.
Low copy number plasmid		
	Low copy number plasmid.	Do not overgrow the culture to avoid cell lysis. Harvest higher culture cells and scale buffers accordingly.
Degradation of DNA isolated		
	Water used is not Molecular Biology Grade.	Use DNase free Water.
	Electrophoresis buffer is contaminated with DNase.	Use a fresh electrophoresis buffer.