

FastGene® RNA Purification kits - Sizes

BASIC



Fig. 1: FastGene® RNA Basic (6 Preps)



Fig. 2: FastGene® RNA Basic (50 Preps)



Fig. 3: FastGene® RNA Basic (250 Preps)

Premium



Fig. 1: FastGene® RNA Premium (6 Preps)



Fig. 2: FastGene® RNA Premium (50 Preps)





























Fig. 3: FastGene® RNA Premium (250 Preps)

Ordering Information

<i>Cat. No.</i>	<i>Product</i>	<i>Content</i>
FG-80006	FastGene® RNA Basic Kit	6 Preps
FG-80050	FastGene® RNA Basic Kit	50 Preps
FG-80250	FastGene® RNA Basic Kit	250 Preps
FG-80RLO25	FastGene® RNA Lysis Buffer	25 ml
FG-80RL125	FastGene® RNA Lysis Buffer	125 ml
FG-81006	FastGene® RNA Premium Kit	6 Preps
FG-81050	FastGene® RNA Premium Kit	50 Preps
FG-81250	FastGene® RNA Premium Kit	250 Preps

FastGene® RNA Isolation kits - Procedure

Step	FastGene® RNA Basic		FastGene® RNA Premium	
	Standard protocol	Large input protocol	Standard protocol	Large input protocol
Sample quantity	< 5 * 10 ⁶ cultured cells <10 mg animal tissue	< 10 ⁷ cultured cells <20 mg animal tissue	< 5 * 10 ⁶ cultured cells <10 mg animal tissue	< 10 ⁷ cultured cells <20 mg animal tissue
Resuspension lysis of the cells	 350 µl buffer RL (with final concentration of 20 mM DTT or TCEP)	 600 µl buffer RL (with final concentration of 20 mM DTT or TCEP)	 350 µl buffer RL (with final concentration of 20 mM DTT or TCEP)	 600 µl buffer RL (with final concentration of 20 mM DTT or TCEP)
Filtration of cellular debris			 Transfer lysate into a FastGene® RNA filter column Centrifuge at ≥ 10,000 x g for 1 min at room temp.	
Optimize RNA binding conditions	 350 µl 70% ethanol Mix thoroughly	 600 µl 70% ethanol Mix thoroughly	 350 µl 70% ethanol Mix thoroughly	 600 µl 70% ethanol Mix thoroughly
RNA binding	 Load mix onto FastGene® RNA binding column Centrifuge at ≥ 10,000 x g 1 min		 Load mix onto FastGene® RNA binding column Centrifuge at ≥ 10,000 x g 1 min	
Protein elimination	 Add 600 µl of buffer RW1 Centrifuge at ≥ 10,000 x g 30 s		 Add 600 µl of buffer RW1 Centrifuge at ≥ 10,000 x g 30 s	
Desalination	 Add 700 µl of buffer RW2 Centrifuge at ≥ 10,000 x g 30 s		 Add 700 µl of buffer RW2 Centrifuge at ≥ 10,000 x g 30 s	
Removal of RW2	 Centrifuge at full speed 1 min Transfer spin column to new 1.5 ml collection tube		 Centrifuge at full speed 1 min Transfer spin column to new 1.5 ml collection tube	
Elution of RNA	 Add 50 µl of buffer RE to membrane center Centrifuge at ≥ 10,000 x g 1 min		 Add 50 µl of buffer RE to membrane center Centrifuge at ≥ 10,000 x g 1 min	
Optimize DNase I conditions			 Add 5 µl 10 x DNase I reaction buffer to the eluate	
DNA Digestion			 Add 1 µl of DNase I to the mixture Incubate for 10 min	
RNA rebinding optimization			 Add 250 µl of buffer RBD to the mixture Mix thoroughly by pipetting	
RNA binding			 Transfer the mix into FastGene® RNA mini-elute column Centrifuge at ≥ 10,000 x g 1 min	
Desalination Elimination of digested DNA			 Add 700 µl buffer RW2 Centrifuge at ≥ 10,000 x g 30 s Transfer spin column in new 2 ml collection tube	
Removal of RW2			 Centrifuge at full speed 1 min Transfer spin column in new 1.5 ml collection tube	
Elution of RNA			 Add 10-50 µl of buffer RE to the membrane center Centrifuge at ≥ 10,000 x g 1 min	