FISHER MOLECULAR BIOLOGY

STOOL DNA ISOLATION MINI KIT DE-023 & DE-024

The Fisher Molecular Biology Stool DNA Isolation Kit is designed for isolation of high quality total DNA from 50~100 mg of fresh or frozen stool sample. The inhibitors of the downstream application such as polysaccharides, humic acid, phenolic compounds will be removed by utilizing the DNA binding column and the buffer system in this kit. During entire procedure is not required the phenol-chloroform, extractions and can be finished within 60 minutes. The purified DNA is ready for PCR and other downstream applications.

Specifications:

Principle: Spin Column (silica membrane)

Sample: from 50 up to 200 mg

Operation time: < 60 min

Elution volume: 50~200 µl

Kit Components	DE-023s (4 preps_sample)	DE-023 (50 preps)	DE-024 (100 preps)
SDE1 Buffer	1.8 ml	20 ml	40 ml
SDE2 Buffer	1.2 ml	7 ml	14 ml
SDE3 Buffer	1.2 ml	15 ml	30 ml
SDE4 Buffer	3 ml	20 ml	40 ml
Wash Buffer (concentrate) *	1.5 ml	20 ml	35 ml
Elution Buffer	1.5 ml	15 ml	30 ml
Proteinase K (lyophilized) *	1.1 mg	11 mg	11 mg x 2
SDE Mini Column	4 pcs	50 pcs	100 pcs
Collection Tube	8 pcs	100 pcs	200 pcs
Elution Tube	4 pcs	50 pcs	100 pcs
Bead tube	4 pcs	50 pcs	100 pcs

*PREPARATION OF PROTEINASE K Solution and Wash Buffer

Cat. N°:	DE-023s	DE-023	DE-024
ddH2O volume for Proteinase K Solution	0.11 ml	1.1 ml	1.1 ml
ethanol volume for Wash Buffer	6 ml	80 ml	140 ml

1. Buffers provided in this system contain irritants. Wear gloves and lab coat when handling these buffers.
2. Check SDE1 Buffer before use, Warm SDE1 Buffer at 60˚C for 10 minutes if any precipitate formd.
3. Add required sterile ddH2O to Proteinase K tube to make a 10 mg/ml stock solution. Vortex and make sure that Proteinase K has been completely dissolved. **Store the stock solution at 4 ˚C.**
4. Add indicated volume of ethanol (96-100%) to Wash Buffer before use.
5. Prepare a heating block or a water bath to 60 ˚C. If DNA is isolated from gram positive bacteria, prepare a heating block or a water bath to 95 ˚C for another incubation.
6. All centrifuge steps are done at full speed (~18,000 x g) in a microcentrifuge.
7. Preheat Elution Buffer or ddH2O to 60˚C for elution step.