

Technical specifications

		Ecos-Gene 1	Ecos-Gene 2	Ecos-Gene 4
Throughput		1	2	4
Containers and consumables		4 reagent chambers containing pre-packaged liquid reagents 1 sample chamber with sealing cover 1 PCR reaction chamber containing pre-packaged reagents 1 detection well supporting PCR amplification and fluorescence detection		
Sample chamber capacity		Maximum capacity is 3 mL, the working volume is about 2.5 mL		
Magnetic method		Bottom magnetic adsorption		
Extraction temperature performance	Heating method	Lysis chamber and elution chamber can be heated		
	Heating range	RT. ~ 120 °C		
	Temperature accuracy	±0.5 °C		
Extraction performance	Extraction time	According to the reagent scheme, generally 25 ~ 30 min for each sample		
	Extraction consistency	CV≤5 %		
PCR amplification	Average heating rate	Module from 50 °C ~ 95 °C: ≥6 °C/s		
	Maximum heating rate	Module from 50 °C ~ 95 °C: ≥10 °C/s		
	Average cooling rate	Module from 95 °C ~ 50 °C: ≥4.5 °C/s		
	Maximum cooling rate	Module from 95 °C ~ 50 °C: ≥8 °C/s		
	Temperature accuracy	≤±0.2 °C		
	Module temperature control accuracy	≤±0.2 °C 55 °C		
Detection module	Fluorescence detection channel	4 (470-510 nm, 530-565 nm, 585-620 nm, 630-665 nm)		
Applicable fluorescent dyes		FAM / HEX / ROX / CY5		
Detection time		According to the reagent scheme, generally 35 ~ 50 min for each sample		
Sterilization		Each sample channel is equipped with an independent UV sterilization lamp		
Software operation		Windows system software, supporting personalized function customization		
Report output		Possibility to connect an external printer for printing test reports		
External interface		1×RS232 port; 1×B-USB port; 1×LAN port		
Information management		Possibility to connect an external scanner to record information about samples and reagents Expandable LIS system connection Expandable cloud database connection		
Dimension (W×D×H) mm		124×292×427	248×292×427	496×292×427