

Evogen ONE™ Fruit Fly Protocol

One Tube, One Reagent, One Step



Evogen ONE simplifies your sample prep and reduces your impact on the environment.

Evogen's ONE is a single reagent system designed to lyse a variety of cell types and capture PCR-ready DNA in approximately 25 minutes from start to finish. ONE is simple, easy to use, and cost effective.

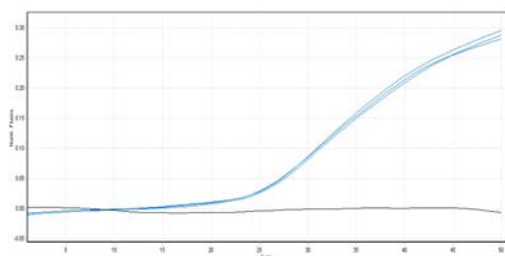
ONE can be used with multiple sample types, including bacterial cultures and isolates, as well as environmental, agricultural, food, and diagnostic samples.

Fruit Fly Procedure

PCR-ready lysate is prepared using a simple procedure.

1. Pulverize 20-30 flies in 100µL ONE (150µL of Evogen ONE may be used for large samples).
2. Incubate at 95°C for 15 minutes.
3. Centrifuge for 2 minutes to pellet cellular debris.
4. Supernatant containing DNA is ready to add to your PCR reaction.
5. 1µL template DNA per 25µL reaction is recommended for optimal results.

Typically, 1 - 10 µL of the lysate supernatant can be used in a 25 µL PCR reaction. However, the optimum amount should be determined empirically, depending on the expected DNA concentration, starting sample size, and sample composition.



Amplification of the SLBO gene from *D. Melanogaster*.

Key Benefits

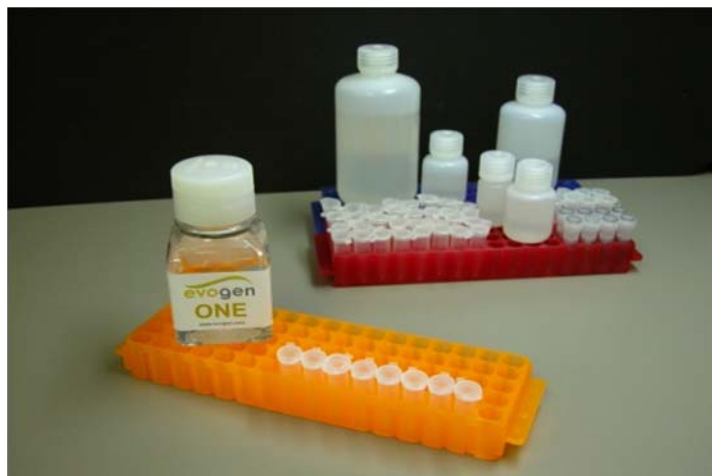
- Cost-effective
- Simple to use - One reagent, one tube
- Rapid - PCR ready DNA in 25 minutes
- Robust - add lysate to PCR at up to 40% total volume
- Versatile - Same procedure for gram positive and gram negative bacteria, blood, yeast, and tissues
- Environmentally friendly - less waste than competitive products

Additional protocols available at:

www.evogen.com/products/evogen_one.html



Comparative Information*



	Evogen ONE	Chemagen	MoBio	IT DNA 123
Number of preps per	300	100	250	40
Cost per Sample	\$0.67	\$1.69	\$1.90	\$4.48
Average Time for 8 Samples (experienced user)	22 minutes	36 minutes	1 hour 14 minutes	37 minutes
Number of Pipette Steps (8 samples)	32	104	96	64
Average Yield	0.90ng/μL	0.41ng/μL	0.38ng/μL	0.30ng/μL
Amount of Starting Material	50-200μL (depending on sample concentration)	200μL	Protocol states 1.8ml of sample per prep	average is 100μL (varies depending upon sample type)
Amount of Ending Material	100μL	100μL	50μL	200μL
Additional Equipment & Disposables	Microtubes, 95°C heat block, microcentrifuge, pipettes	Magnetic bead separator tray, 55°C heat block, microcentrifuge, pipettes, microtubes	Flat bed adaptor for vortexer, Microcentrifuge, refrigerator, pipettes	Genie disruptor, Microcentrifuge, Pipettes
Consumables included in Kit	1 bottle	7 bottles	6 bottles, bead tubes (50), microtubes (200), spinfilter tubes (50)	3 bottles, swabs, pipettes, bead tubes (40), spinfilter tubes (40), microtubes (120)

* Comparative information based on a gram negative bacterial DNA extraction.



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