ACTOR	CATEGORY	ACTION	VOLUME
Operator	Sample Introdution	Load sample, cap, insert consumable into system	
LRM	Sample Prep	Add lysis buffer to sample	Lysis buffer- 300μl
LRM	Sample Prep	Mix sample and lysis buffer	
LRM	Sample Prep	Actuate mixed sample and lysis buffer through bead beater	
LRM	Sample Prep	Add binding buffer and mag particles to lysed sample	
LRM	Sample Prep	Mix lysed sample with binding buffer and mag particles	Binding buffer - 500 μl
LRM	Sample Prep	Filler fluid delivered to cartridge	3 mL
LRM	Sample Prep	Capture of magnetic particles	
LRM	Sample Prep	Washing of magnetic particles	Wash buffer-- 200 μl
LRM	Sample Prep	Release magnetic particles	
LRM	Sample Prep	Magnetic particles delivered to sample prep chamber on cartridge	Wash buffer-- 200 μl
⋮	⋮	⋮	⋮

FIG. 33A