

wMicroTracker Specie Compatibility



	Species	Stage	Length in µm	C. elegans size equivalency	Suitable for Wmicrotracker?
C. elegans (for reference)		L1	250-350		YES
		L2	360-380		YES
		L3-L4	500-900		YES
		young adult (Day 1- Day 5)	1000		YES
		Day 6+	1700		YES
Flukes	<i>Schistosoma mansoni</i>	adults female	600-1000	L4-adult	Not Tested
	<i>Schistosoma mansoni</i>	larvae	136-250	smaller than L1	Not Tested
	<i>Fasciola hepatica</i>	NEJs	120-300	~L1	Not Tested
	<i>Fasciola hepatica</i>	3-w old juveniles	200-900	L1-L4	Not Tested
	<i>Schistosoma mansoni</i>	adults female	1200-1600	adult	Not recommended
	<i>Schistosoma caproni</i>				Not recommended
	<i>Fasciola hepatica</i>	adult			NO
Hookworms	<i>Necator americanus</i>	L1	250-300	L1	Not Tested
	<i>Ancylostoma duodenale</i>	L1	275	L1	Not Tested
	<i>Ancylostoma duodenale</i>	adult male	8000-11000	> 8x adult	Not Tested
	<i>Ancylostoma duodenale</i>	adult female	10000-18000	> 10x adult	Not Tested
	<i>A. ceylanicum</i>	adult male	>5000	> 5x adult	Not Tested
	<i>A. caninum</i>	L3	485	L4	Not Tested
	<i>A. caninum</i>	adult male	12000	adult	Not Tested
	<i>A. caninum</i>	adult female	14000-20000	adult	Not Tested
	<i>A. braziliense</i>	n/a	n/a	n/a	Not Tested
	<i>A. braziliense</i>	adult male	6000-9000	>6x adult	Not Tested
<i>A. braziliense</i>	adult female	9000-11000	>9x adult	Not Tested	
Ruminant / Cattle parasites	<i>Haemonchus contortus</i> ^{1,4}	L3	730-805	L4	YES
	<i>Cooperia oncophora</i> ^{2,4}	xL3	865-940	L4	YES
	<i>Teladorsagia circumcincta</i> ^{2,4}	xL3	830-865	L4	YES
	<i>Ostertagia ostertagi</i> ^{2,4}	xL3	850-915	L4	YES
	<i>Gaigeria pachyscelis</i>	L3	630-820	L4	Likely
	<i>Trichostrongylus colubriformis</i>	L3	710-743	L4	Likely
	<i>Trichostrongylus falculatus</i>	L3	730-780	L4	Likely
	<i>Cooperia curticei</i>	L3	780-825	L4	Likely
	<i>Chabertia ovina</i>	L3	750-875	L4	Likely
	<i>Oesophagostomum columbianum</i>	L3	850-1005	L4-young adult	Likely
	<i>Strongyloides papillosus</i>	L3	600	L4	Likely
	<i>Bunostomum phlebotomum</i>	L3	550-625	L4	Likely
	<i>Trichostrongylus axe</i>	L3	685-718	L4	Likely
	<i>Chabertia ovina</i>	L3	750-900	L4	Likely
	<i>Oesophagostomum radiatum</i>	L3	800-965	L4	Likely
	<i>Haemonchus placei</i>	L3	820-920	L4	Likely
	<i>Cooperia pectinata & Cooperia punctata</i>	L3	850-910	L4	Likely
	<i>Cooperia oncophora</i>	L3	890-985	L4	Likely
	<i>Haemonchus contortus</i>	L1	350	L1-L2	Not Tested
	<i>Haemonchus contortus</i>	adult female	22000	> Day 6+	Not Tested
Tapeworms	<i>Echinococcus granulosus</i> ^{1,5}	protoscolex	200	< L1	YES
	<i>Mesocestoides corti</i> ^{2,6}	tetraphyridia	750-1000	L3-L4	YES
	<i>Echinococcus granulosus</i>	adult	3000-9000	3x adult	Not Tested
	<i>Dirofilaria immitis</i> ^{2,7}	larvae	300		YES
Other	<i>Ascaris suum</i> ³	infectious L4	6000	6x adult size	Likely
	<i>Dirofilaria immitis</i>	adult female	230000-310000		Not Tested
	<i>Dirofilaria immitis</i>	adult male	120000-190000		Not Tested
	Threadworms				Not Tested
	Whipworms				Not Tested
	Pinworm				Not Tested
	<i>Ascaris lumbricoides</i>	adult female	15-31 cm	too big	NO
	<i>Ascaris lumbricoides</i>	adult male	20-49 cm	too big	NO
<i>Ascaris suum</i>	adult female	20-49 cm	too big	NO	
<i>Ascaris suum</i>	adult male	15-31 cm	too big	NO	

Recommended plate format (U : U-bottom; F: Flat-bottom+GJ+GJ): 1: 96-w (U); 2: 96-w; 3: 6-w
 Recommended number of worms/well: 4: >80; 5: 120; 6: 125; 7: >150