	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34
Liquid Nitrogen	Remove frozen Stabicates from liquid nitrogen	Increase in asexual numbers of parasites — parasitaemia				If 1% or above, split (subculture) and use to start asexual cycle. If <1% remove another stabilate																													
Asexual parasites	Start at 0.5% parasitaemia	Increase in asexual parasitaemia			Typically by day 4 (or 5) will have increased to 2-5% — at this point parasites are ready to split. Some for more asexuals some for sexual stage		This cycle of asexual growth/splitting for asexual and sexual stage parasites is continuous in the malaria group																												
Sexual cycle (gametocytes)	Start at 0.5% parasitaemia	Increase in asexual parasites					At days 6 or 7 should have an asexual parasitaemia of 8-15%		At days 8 or 9 should see some stage I gametocytes. Asexual numbers still rising.		Asexual numbers falling. Start to see stage II gametocytes		Over days 12, 13 and 14 start to see stage III and IV			See female mature stage V gametocytes		See male mature stage V gametocytes	At day 17 harvest parasites and use for feeds to mosquito	After 1 to 3 months the number of gametocytes begin to drop and need to return to liquid nitrogen stocks		Over days 12, 13 and 14 start to see stage III and IV												
Mosquito stages (mosquito lifecycle)			Blood feed mosquito females need Rbc's for egg cases		Eggs laid		Eggs emerging into larvae					Larvae pupating		Pupae emerging to become adults on days 13 and 14				Separate "ready" to feed females and starve overnight	Feed to day 4 virgin female mosquito	Zygotes formed	Ookinates migrate to mid-gut wall	Oocytes appear	Oocytes increasing in size						Check on days 10 or 11 for oocytes — now large enough to visualise		Carry on increasing in size			Oocysts burst and start migration to salivary gland	Sporozoites in salivary gland. Dissect day 16 or 17
Continuous production of stock for feeds	-18	-17	-16	-15	-14	-13	-12	-11	-10	-9	-8	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

CYCLICAL PROCESS