

Fertility Analysis of Phenotypically Female F0 Generation Mice Derived from XY ES Cell Clones								
Clone	Genotype	F0s Set Up to Breed (#)	F0s with Litters (#)	F0s with Litters (%)	Litters (#)	Total Pups (#)	Pups Per Litter (#)	
860a-H1	XY	2	1	50	3	11	3.7	
829a-E2	XY	1	0	0	0	0	---	
5339a-A5	XY	2	2	100	8	55	6.9	
5315a-D1	XY	1	1	100	8	48	6	
5311b-D1	XY	4	1	25	4	37	9.3	
5310a-D4	XY	1	1	100	6	32	5.3	
5310a-B1	XY	6	6	100	34	188	5.5	
5310a-A5	XY	2	2	100	11	75	6.8	
5137b-E1	XY	2	2	100	12	74	6.2	
294d-A5	XY	1	0	0	0	0	---	
1553a-A10	XY	2	0	0	0	0	---	
1533b-A2	XY	2	1	50	2	16	8	
13304a-D5	XY	1	1	100	2	15	7.5	
1313h-F3	XY	2	1	50	1	2	2	
12221b-B3	XY	1	1	100	1	10	10	
11465d-G1	XY	1	1	100	6	49	8.2	
884a-D1	XY	2	0	0	0	0	---	
Summary		33 (Σ)	21 (Σ)	63%	98 (Σ)	592 (Σ)	6 (avg)	

FIG. 1

Effect of DMEM and Low-Salt DMEM on Formation of XY Females in the F0 Generation from XY ES Cells									
	ES Clone	Media	Embryos Transferred (#)	Pups Born (#)	Male VM (#)	Female VM (#)	XY Genotyping		
		Clone Production & Thawing							
1	d-G4	Low-salt DMEM	50	19	8	4	all females are XY		
2	d-A1	Low-salt DMEM	50	5	0	0	all females are XY		
3	e-C2	Low-salt DMEM	50	4	3	1	all females are XY		
4	e-D1	Low-salt DMEM	50	22	12	2	all females are XY		
5	e-H2	Low-salt DMEM	50	14	10	0	---		
6	e-H3	Low-salt DMEM	50	11	6	0	---		
			Totals	300	75	39	7	all females are XY	
8	d-C6	Low-salt DMEM + 10% FS	50	14	2	5	all females are XY		
9	d-A5	Low-salt DMEM + 10% FS	50	26	7	7	all females are XY		
10	e-B6	Low-salt DMEM + 10% FS	50	18	8	5	all females are XY		
11	e-A5	Low-salt DMEM + 10% FS	50	18	13	3	all females are XY		
12	e-C6	Low-salt DMEM + 10% FS	50	19	11	3	---		
13	e-F5	Low-salt DMEM + 10% FS	50	19	13	5	---		
			Totals	300	114	54	28	all females are XY	
15	d-H9	Low-salt DMEM +NaCl+NaHCO ₃	50	30	9	0	---		
16	d-C10	Low-salt DMEM +NaCl+NaHCO ₃	50	14	4	0	---		
17	e-A9	Low-salt DMEM +NaCl+NaHCO ₃	50	3	0	0	---		
18	e-G8	Low-salt DMEM +NaCl+NaHCO ₃	50	22	3	0	---		
19	e-H9	Low-salt DMEM +NaCl+NaHCO ₃	50	2	0	0	---		
			Totals	250	71	16	0	---	

FIG. 2