							Litter Star	ndardization			s between	Animals
Age at dosing onset	Length of dosing	Day of kill		Strain of rat	Type of	Type of vehicle		Standardized	Distributing Littermates to Treatment	Light- on and	Last dose and	Held overnight prior to
(PND)	(days)	(PND)	Method of kill	used	feed used	used	Method	Litter Size	Groups	dosing	kill	necropsy?
	and Lefevre P. Toxicol. 20(1		he peripubertal male	rat assay as an alt	ernative to the	Hershberger castrate	d male rat assay f	or the detection of		oestrogens a	nd metabolic mod	
1. 22-23 2. 35- 36 3. 22-	1. 14 2. 14 or 20 3. 34 or	37, 50, 56, 57	Anaesthetic (Fluothane) followed by cervical dislocation.	Alpk:APfSD	Weaned on Rat and Mouse (R&M) No. 3;	Hydroxypropyl methoxycellulose (HPMC)	NR	NR	Randomized so each group had approx. equal initial body weight mean and	NR	1, 2: 24 hours 3: 20 days	NR
23 Blystone,	14+20 days recovery. CR, Furr, J, L					GA, and Gray, LE Jawley rat. <i>Toxicol So</i>		oraz inhibits testos	range.	n at dosages	below those that a	ffect
23	1. 19-20 2. 27-28 3. 19-20	1. 42-43 2. 50-51 3. 42-43	NR	Sprague Dawley	Purina Laboratory Rat Chow (5001)	Corn oil	NR	NR	Randomized so each group had approx equal mean body weights & variances	NR	1.5 to 6 hours	NR
						ects of organotin con					l vin	Lyr
23	30	53	Decapitation	Wistar (HsdCpb:WU)	Altronmin 1324	Peanut oil	NR	NR	Randomized so each group had approx equal mean body weights & variances	NR	NR	No

A = Not Applicable 1 June 19, 2007

							Litter Standardization		Method for			Animals	
Age at									Distributing			Held	
dosing	Length of	Day of		a. • a .					Littermates	Light-		overnight	
onset	dosing	kill		Strain of rat	Type of	Type of vehicle		Standardized	to Treatment	on and	Last dose and	prior to	
(PND)	(days)	(PND)	Method of kill	used	feed used	used	Method	Litter Size	Groups	dosing	kill	necropsy?	
	Marty MS, Crissman JW, and Carney EW. (2001) Evaluation of the male pubertal assay's ability to detect thyroid inhibitors and dopaminergic agents. <i>Toxicol Sci.</i> 60(1):63-76.												
21	30	51	Anesthetic	CD®	Purina	0.5% Methocel®	Cross-	1st series of	Randomized	NR	Approx. 24	NR	
			(methoxyflurane)	(Sprague-	Laboratory	A4M	fostering to	experiments:	such that each		hours		
			and decapitated	Dawley	Rodent		reach the	10 litters, each	group had		(following		
				derived)	Chow		required	containing 6	approximately		morning)		
					(5002)		number of	pups per sex.	equal body				
							male pups per		weight mean				
							litter. Cross-	2 nd series of	and variance.				
							fostered pups	experiments:	Blocked by				
							from the same	11 litters each	litter to ensure				
							litter were not	containing 10	littermates				
							placed in	male pups	were not				
							multiple study		assigned to the				
							litters in order		same				
							to control for		treatment				
							litter effects at		group.				
							the time of						
							randomization						
							into treatment						
	ļ						groups.						

							Litter Standardization		Method for	# hours between		Animals
Age at dosing	Length of	Day of							Distributing	T inh4		Held
onset	dosing	kill		Strain of rat	Type of	Type of vehicle		Standardized	Littermates to Treatment	Light- on and	Last dose and	overnight prior to
(PND)	(days)	(PND)	Method of kill	used	feed used	used	Method	Litter Size	Groups	dosing	kill	necropsy?
			y EW. (2001) Evalua									neer opsy.
21	30	51	Anesthetic	CD®	Not	0.5% Methocel	Cross-	1 st series of	Randomized	NR	Approximately	NR
			(methoxyflurane)	(Sprague-	specified.		fostering to	experiments:	such that each		24 hours	
				Dawley-	Assumed to		reach the	10 litters, each	group had			
				derived)	be Purina		required	containing 6	approximately			
					Laboratory		number of	pups per sex.	equal mean			
					Rodent		male pups per		body weights			
					Chow		litter. Cross-	2 nd series of	and variances.			
					(5002)		fostered pups	experiments:	Blocked by			
							from the same	11 litters each	litter to ensure			
							litter were not	containing 10	littermates			
							placed in	male pups	were not			
							multiple study litters in order		assigned to the same			
							to control for		treatment			
							litter effects at		group. Ten			
							the time of		males per			
							randomization		treatment			
							into treatment		group.			
							groups.		group.			
Marty MS	, Johnson KA	, and Carney	EW. (2003) Effect	of feed restriction	on Hershberge	r and pubertal male		Birth Defects Res I	Part B Dev Repro	d Toxicol. 68	3(4):363-374.	
23	Varied	45, 49,	CO inhalation	CD	Purina	Corn oil at .75	12 litters of	NR	Randomized	NR	NR	NR
		52, 56, or			Certified	mg/kg	rats along		such that each			
		59			Rodent Lab		with 12		group had			
					Diet (5002)		lactating		approx. equal			
							dams were		mean body			
							purchased. To		weights and			
							control for		variances.			
							litter bias,					
							pups were not					
							cross-fostered into multiple					
							litters.					
Romualdo	GS, and Klir	nefelter GR <i>a</i>	l de K. (2002) Postwei	aning exposure to	gossypol result	ts in epididymis-spea		l ghout puberty and	adulthood in rats	J Androl. 2	1	1
21	30	51	Decapitation	Wistar	Unspecified	Sunflower oil	NR	NR	NA NA	NR	NR (assumed	NR
			<u> </u>		lab chow						within 24	
											hours)	

							Littor Stor	ndardization	Method for	# hour	s between	Animals
Age at							Litter Star	iluai uizativii	Distributing	# Hour	s between	Held
dosing	Length of	Day of							Littermates	Light-		overnight
onset	dosing	kill		Strain of rat	Type of	Type of vehicle		Standardized	to Treatment	on and	Last dose and	prior to
(PND)	(days)	(PND)	Method of kill	used	feed used	used	Method	Litter Size	Groups	dosing	kill	necropsy?
. ,						on puberty in male						
			Health A. 65(5-6):43			1 2		1		•	1	
33	20	54	Ether anesthesia	Sprague-	Chinchon	Corn oil (5	NR	NR	Randomized	NA	24 hours	No
				Dawley	rodent diet	mL/kg)			(rats weighing			
									134-147 g)			
) The effect of atı	razine on puber	ty in male wistar rats	s: an evaluation in	n the protocol for the	he assessment of j	pubertal dev	elopment and thyr	oid
23	nction. <i>Toxico</i>	53-54		Wistar	Purina	Mathal adhalas	Culled on	0 10 1:44	Males	NA	NA	No
23	30-31	55-54	Decapitation	Wistar	Laboratory	Methyl cellulose	PND 3	8-10 per litter	randomized	NA	NA NA	NO
					Rat Chow		FND 3		such that			
					(5001)				treatment			
					(3001)				groups had			
									similar body			
									weight means			
									& variances			
Stoker TE	E. Guidici DL.	Laws SC, aı	nd Cooper RL. (2002) The effects of a	trazine metabol	lites on puberty and t	hvroid function is	n the male Wistar		7(2):198-206	і. б.	I
23	30-31	53-54	Decapitation	Wistar	Purina	Methyl cellulose	Culled on	8-10 per litter	Males	3-4	NR	No
					Laboratory Rat Chow		PND 3	·	randomized	hours		
				Rat Cho (5001)					such that			
					(5001)				treatment			
					,				groups had			
									similar body			
									weight means			
									& variances;			
									litter-mates			
			1						equally			
C4-l TT	. I SC C		I.d., IM EII IN	[C DI	(2004) 4	ment of DE-71, a co			among groups	-4 : 41	EDCD11 f-	
			ci. 78(1):144-155.	i, and Cooper KL	. (2004) Assess	sment of DE-71, a co	ilililerciai polybro	ommated dipnenyi	ettler (PDDE) IIII	xture, in the	EDSP male and re	emaie
23	31 (male);	53	Decapitation	Wistar	Purina	Corn oil	Culled on	8-10 per litter	Randomized	NR	2 hours	No
(male);	20	(male);	1		Laboratory		PND 3		such that			
22	(female)	41			Rat Chow				treatment			
(female)		(female)			(5001)				groups had			
									similar body			
									weight means			
									& variances;			
									litter-mates			
									equally			
									among groups			

Age at dosing onset (PND)			Method of kill	Strain of rat	Type of feed used	Type of vehicle used	Litter Standardization		Method for	# hours between		Animals
	Length of dosing (days)	Day of kill (PND)					Method	Standardized Litter Size	Distributing Littermates to Treatment Groups	Light- on and dosing	nd Last dose and	Held overnight prior to necropsy?
	E, Cooper RL, ppl Pharmaco	_	CS, Wilson VS, Furr 88.	J, and Gray LE. (2	2005) In vivo a	nd in vitro anti-andro	ogenic effects of	DE-71, a commerc	ial polybrominate	ed diphenyl o	ether (PBDE) mixt	ure. Toxicol
23	31	53	Decapitation	Wistar	Purina Laboratory Rat Chow (5001)	Corn oil	Culled on PND 3	8-10 per litter	Randomly assigned based on body weight & litter	NR	2 hours	No
			ooper RL, and Bucka points. <i>Toxicology</i> . 2		aluation of amr	nonium perchlorate	in the endocrine	disruptor screening	and testing progr	am's male p	abertal protocol: al	bility to
23	31	53	Decapitation	Wistar	Purina Laboratory Rat Chow (5001)	Corn oil	Culled on PND 3	8-10 per litter	Randomly assigned based on body weight & litter	0-1 hour	2 hours	No
			A. (2003) Assessmen									T
23	30	52-53	Decapitation	Sprague- Dawley	Gold Coin soy-free rat chow	Corn oil for nonylphenol; Tween -80 in distilled water for bisphenol A	NR	NR	NR	2 hours	NR	No
	ste SV, Friedm ndrol. 22(1):14		uker RT, Breckenrid	ge CB, and Zirkin	BR. (2001) At	razine effects on test	tosterone levels a	and androgen-deper	dent reproductive	e organs in p	eripubertal male r	ats. J
22	25	47	Decapitation	Sprague- Dawley	NR	CMC	NR	NR	NR	NR	24 hours	No
			vaki M, Noda S, and pment and Thyroid F	Takatsuki M. (20						Test Guideli	ne no. 407' and the	research
23	30	53	Exsanguination under ether anesthesia	Crj:Cd (SD) IGS	MF; Oriental Yeast Co	Corn oil	NR	NR	Weight- ranked and randomly assigned	NR	Within 24 hours	NR
	Lee BJ, Nam S		long JT, Do JC et al.	(2004) Reproduct	ive disorders in	pubertal and adult p	phase of the male	rats exposed to vii	nclozolin during p		t Med Sci. 66(7):8	47-853.
35	10	45	Exsanguination under ether anesthesia	Sprague- Dawley Bgi- Crj:CD (SD)IGS BR	Samyang chow	Corn oil	NR	NR	Stratified randomization	NR	24 hours	No