

Calculations for Paperwork Burden and Costs for Data Generation Activities										
Assay	Estimated Costs						Estimated Burden			
	2009 Assay Cost (\$) (a-1)	Adjusted Assay Cost (\$) (a-2)	Paperwork Burden Cost (\$) (b)	Management Burden Cost (\$) (c)	Technical Burden Cost (\$) (d)	Clerical Burden Cost (\$) (e)	Management Burden (Hours) (f)	Technical Burden (Hours) (g)	Clerical Burden (Hours) (h)	Total Burden (Hours) (i)
Amphibian Metamorphosis (Frog)	82,065.50	87,780.79	30,723.28	6,144.66	19,970.13	4,608.49	54.62	359.89	138.19	552.70
Androgen Receptor Binding (Rat Prostrate)	23,814.00	25,472.48	8,915.37	1,783.07	5,794.99	1,337.31	15.85	104.43	40.10	160.38
Aromatase (Human Recombinant)	29,800.00	31,875.36	11,156.38	2,231.28	7,251.64	1,673.46	19.84	130.68	50.18	200.70
Estrogen Receptor Binding (Rat Uterine)	23,329.00	24,953.70	8,733.80	1,746.76	5,676.97	1,310.07	15.53	102.31	39.28	157.12
Estrogen Receptor Transcriptional Activation (Human Cell Line)	23,867.00	25,529.17	8,935.21	1,787.04	5,807.89	1,340.28	15.89	104.67	40.19	160.74
Fish Short-term Reproduction	111,230.50	118,976.93	41,641.93	8,328.39	27,067.25	6,246.29	74.04	487.79	187.30	749.12
Hershberger (Rat)	45,583.00	48,757.54	17,065.14	3,413.03	11,092.34	2,559.77	30.34	199.90	76.75	306.99
Female Pubertal (Rat)	96,967.00	103,720.07	36,302.02	7,260.40	23,596.32	5,445.30	64.54	425.24	163.28	653.06
Male Pubertal (Rat)	100,350.00	107,338.67	37,568.53	7,513.71	24,419.55	5,635.28	66.79	440.07	168.97	675.84
Steroidogenesis (Human Cell Line)	17,450.00	18,665.27	6,532.84	1,306.57	4,246.35	979.93	11.61	76.52	29.38	117.52
Uterotrophic (Rat)	41,242.00	44,114.22	15,439.98	3,088.00	10,035.99	2,316.00	27.45	180.86	69.45	277.76
Total Burden and Costs:	\$ 595,698.00	\$ 637,184.20	\$ 223,014.47	\$ 44,602.89	\$ 144,959.41	\$ 33,452.17	396.51	2,612.35	1,003.06	4,011.92

(a-1) Estimated costs for these assays are from Table 8 in the EPA report entitled: "Laboratory Testing of Chemicals for Endocrine Disruption Potential - Analysis of Market Factors" (October 14, 2009) (Ref. 8). Shared costs in columns 3 & 4 of that table were divided by the tests included in the group, which include analytical chemistry where appropriate.

(a-2) The estimated costs for these assays were adjusted using an inflation factor to convert 2009\$ to 2012\$. Specifically, the estimated cost in (a-1) was entered into the online inflation calculator provided by US Department of Labor, Bureau of Labor and Statistics at

http://www.bls.gov/data/inflation_calculator.htm.

(b) Based on 35% of the total estimated test costs.

(c) Calculated as 20% of (b), which is 35% of the total estimated test costs.

(d) Calculated as 65% of (b), which is 35% of the total estimated test costs.

(e) Calculated as 15% of (b), which is 35% of the total estimated test costs.

(f) Based on total estimated managerial costs (j) divided by the loaded labor rate for managers (\$112.49).

(g) Based on total estimated technical costs (j) divided by the loaded labor rate for technical staff (\$55.49).

(h) Based on total estimated clerical costs (j) divided by the loaded labor rate for clerical staff (\$33.35).

(i) Total Burden Hours is used in Table 6 of this ICR for estimating the burden & costs related to data generation paperwork activities.