

Two-generation reproductive toxicity study in rats with 1,2,5,6,9,10-hexabromocyclododecane (SR04222)

Figures

- 1 Outline of the two-generation reproductive toxicity study in rats with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 2 Body weights of F0 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 3 Body weights of F1 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 4 Body weights of F0 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 5 Body weights of F1 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 6 Food consumption of F0 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 7 Food consumption of F1 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 8 Food consumption of F0 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 9 Food consumption of F1 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 10 Body weights of F1 rat pups in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)
- 11 Body weights of F2 rat pups in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

F0 generation

F1 generation

Treatment week

- Quarantine and acclimatization
- Assignment for F0 parental animals:
24 males and 24 females per dose level
- 1 F0 dosing begins
- Pre-mating growth period
- 9 Determination of estrous cycles
- 11 F0 breeding begins
 - Mating
 - Gestation
 - Parturition
 - Lactation
 - Physical and functional development of F1 pups
 - Standardization of litter sizes
 - Measurement of anogenital distance
- 15 F0 male dosing end
 - Serum hormone concentrations
 - Hematological and blood chemical examination
 - Sperm motility, count and morphology
 - Gross necropsy
 - Organ weight, Histopathology
- 17 Weaning of F1 offspring
 - Gross necropsy, Organ weight
 - Histopathology
- F0 female dosing end
 - Serum hormone concentrations
 - Hematological and blood chemical examination
 - Gross necropsy
 - Organ weight, Histopathology

Treatment week

- Selection for F1 parental animals:
24 males and 24 females per dose level
- 1 F1 dosing begins
- Pre-mating growth period
 - Sexual development
 - Locomotor activity count
 - Learning tests
- 9 Determination of estrous cycles
- 11 F1 breeding begins
 - Mating
 - Gestation
 - Parturition
 - Lactation
 - Physical and functional development of F2 pups
 - Standardization of litter sizes
 - Measurement of anogenital distance
- 15 F1 male dosing end
 - Serum hormone concentrations
 - Hematological and blood chemical examination
 - Sperm motility, count and morphology
 - Gross necropsy
 - Organ weight, Histopathology
- 17 Weaning of F2 offspring
 - Gross necropsy, Organ weight
 - Histopathology
- F1 female dosing end
 - Serum hormone concentrations
 - Hematological and blood chemical examination
 - Gross necropsy
 - Organ weight, Histopathology

Figure 1 Outline of the two-generation reproductive toxicity study in rats with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

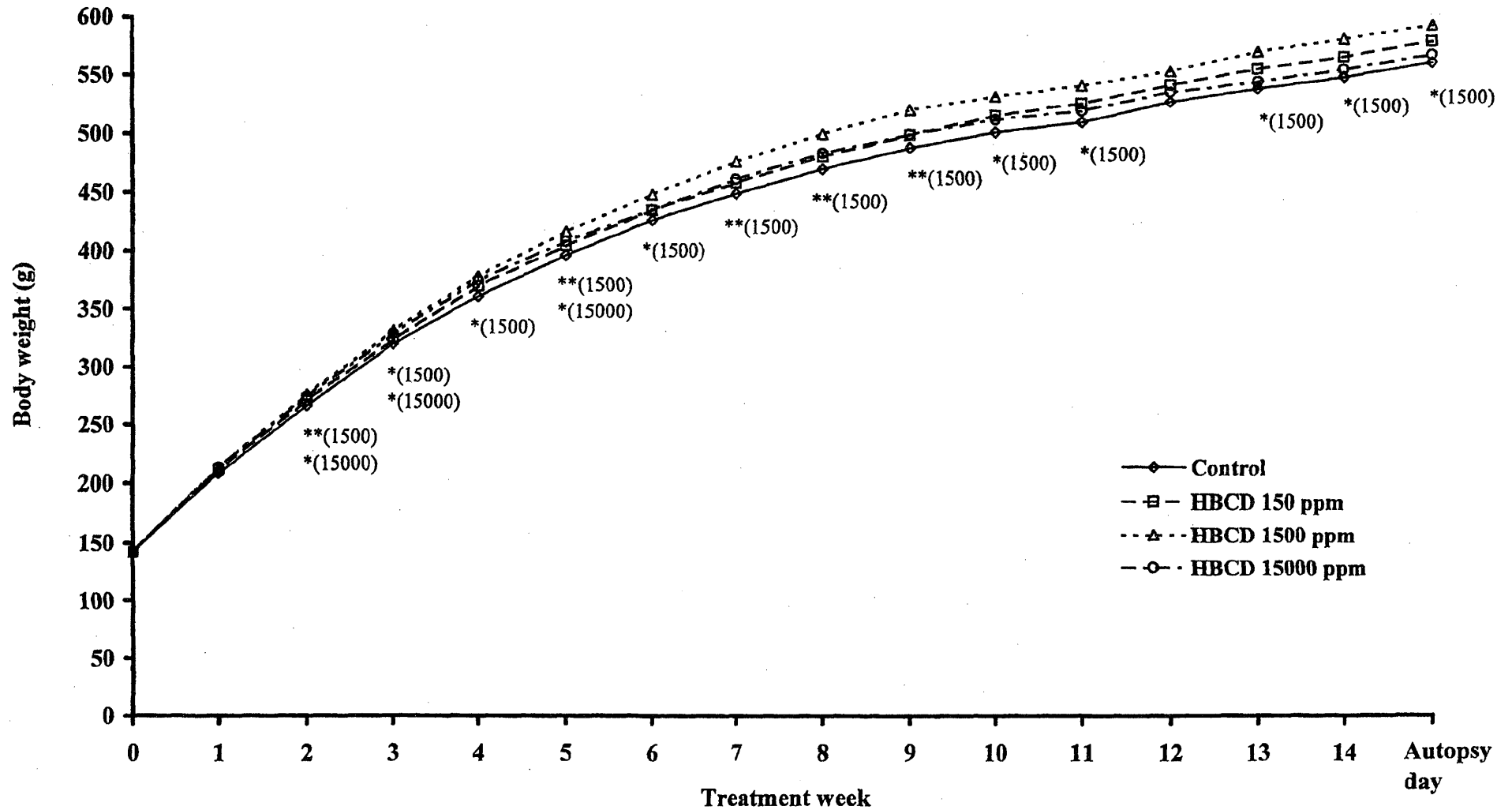


Figure 2 Body weights of F0 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

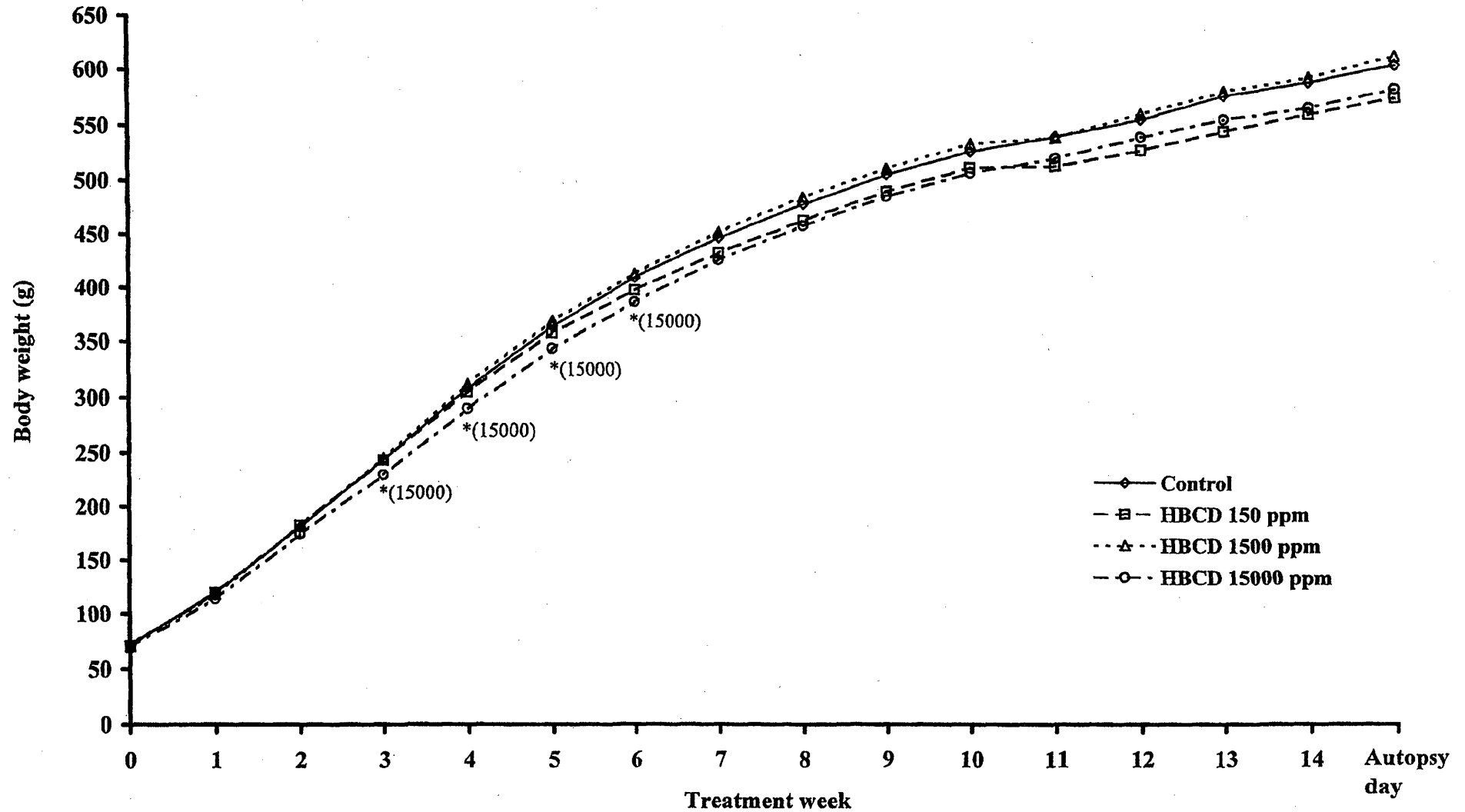


Figure 3 Body weights of F1 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

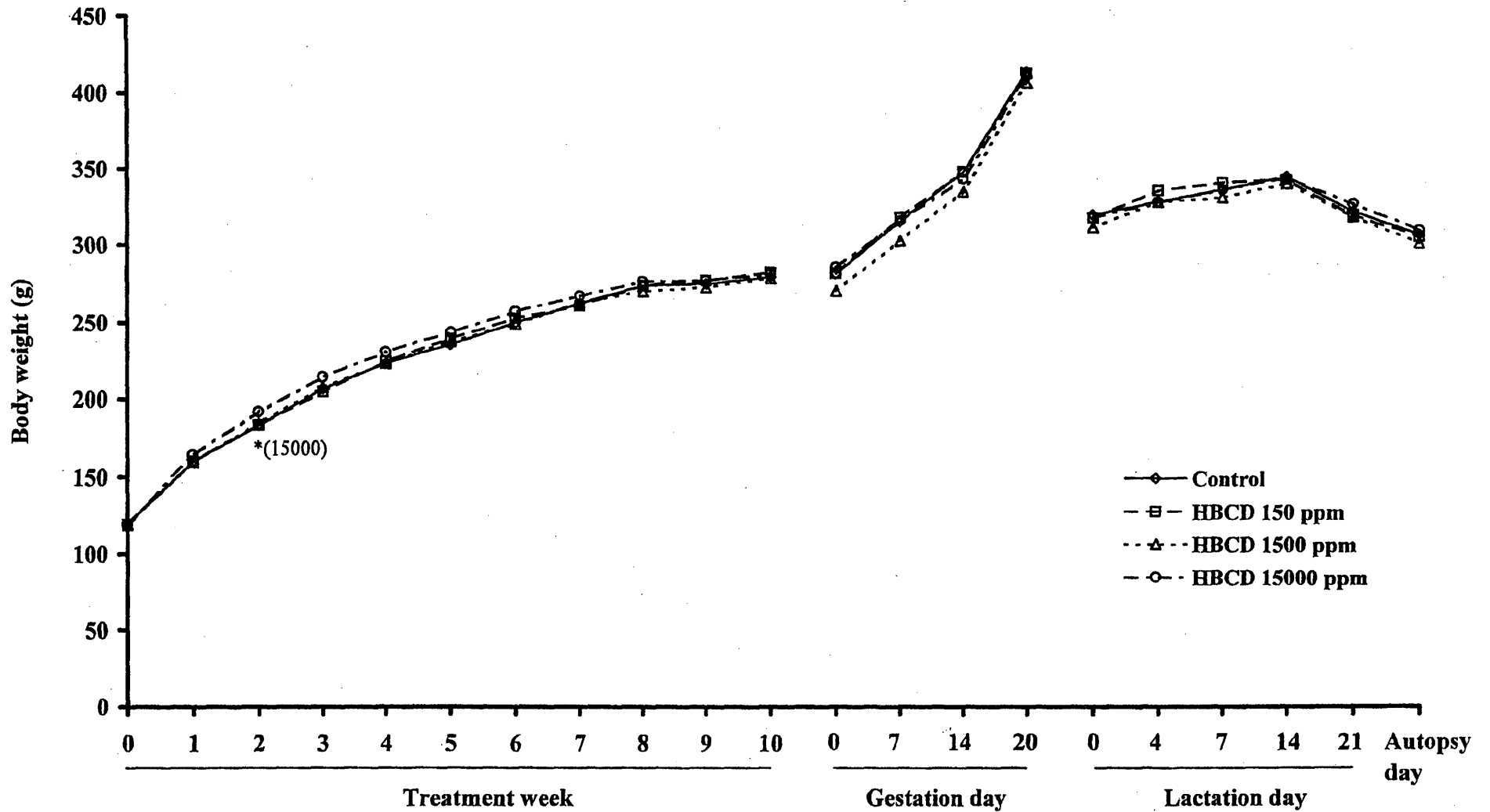


Figure 4 Body weights of F0 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

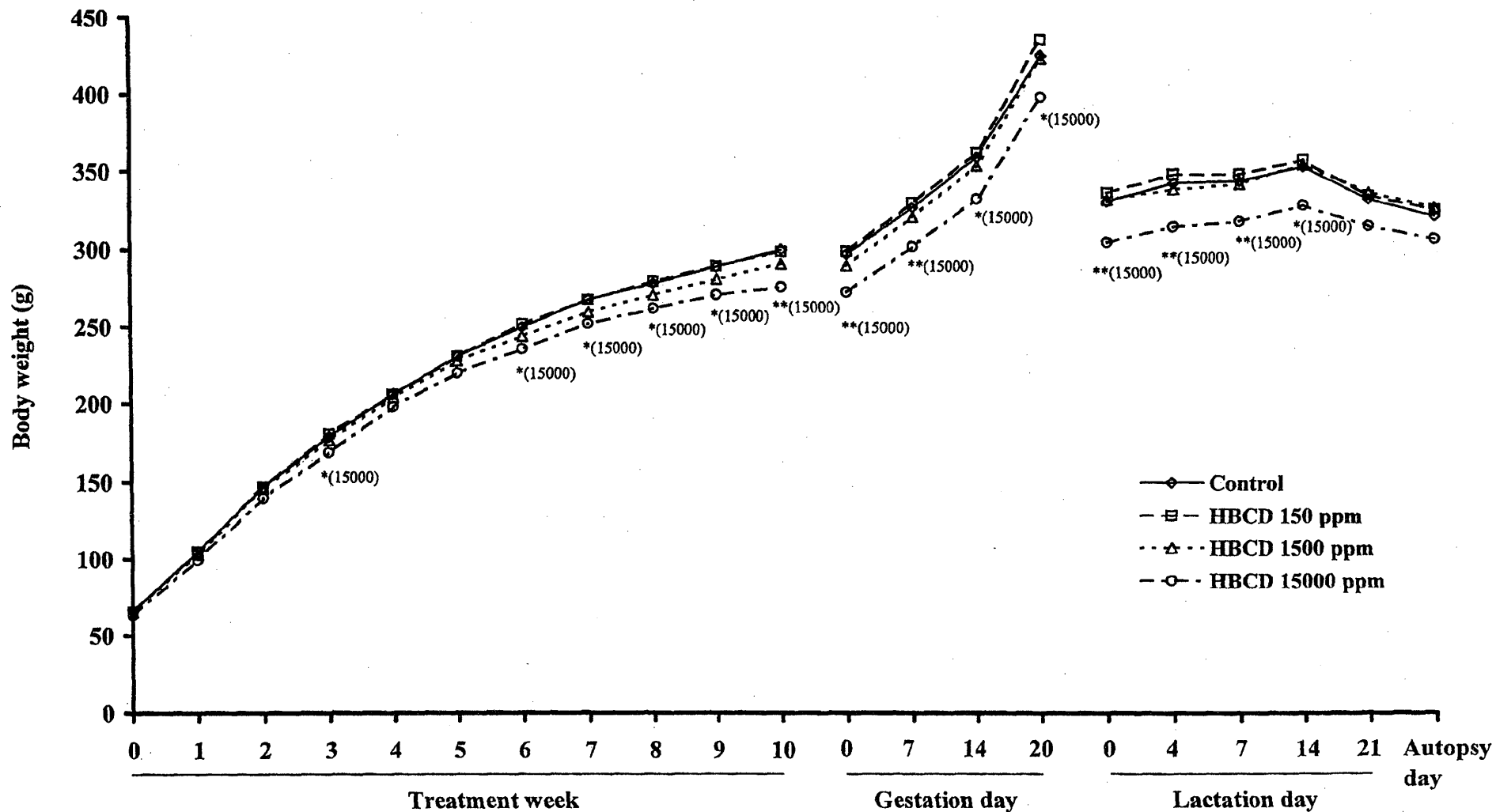


Figure 5 Body weights of F1 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

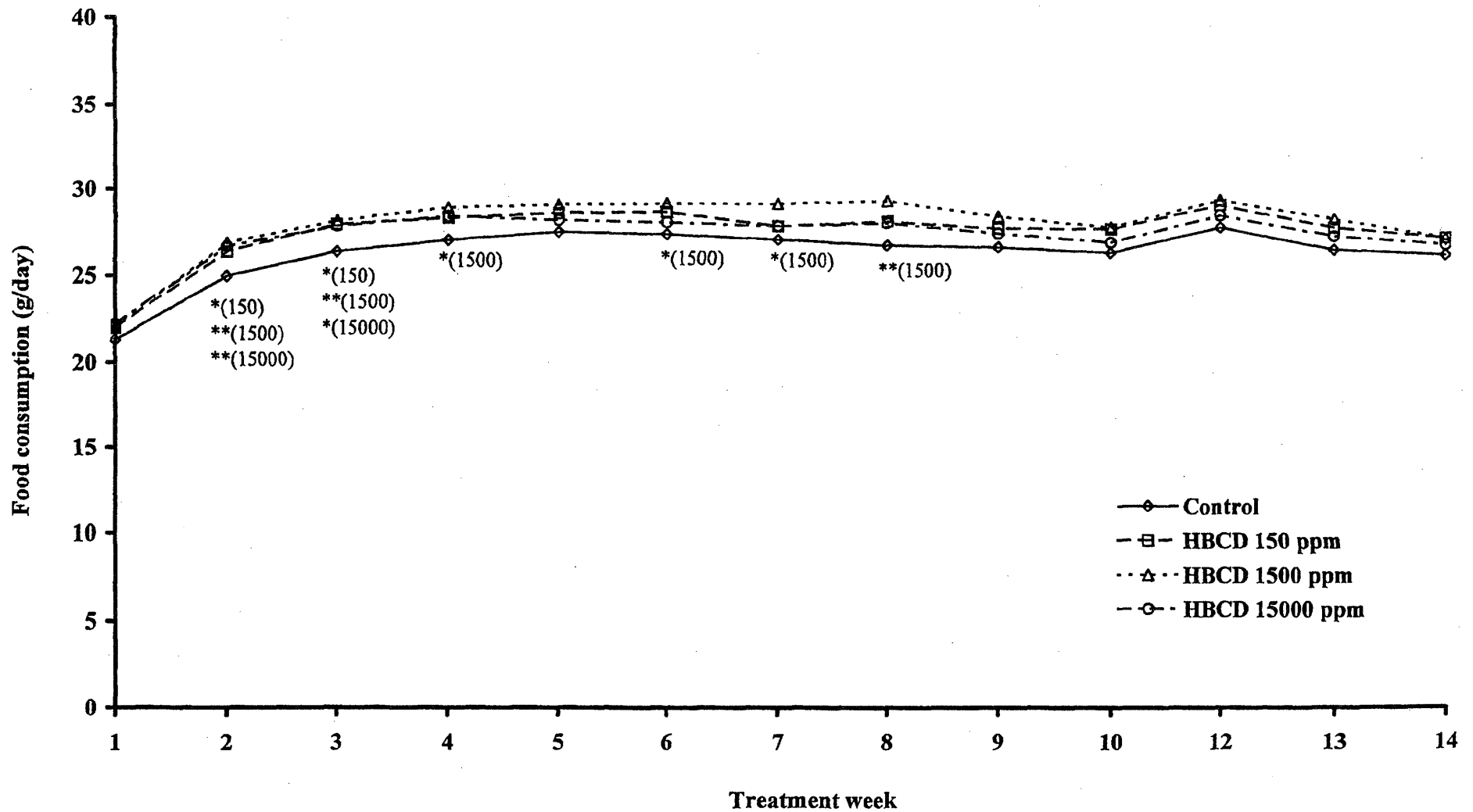


Figure 6 Food consumption of F0 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

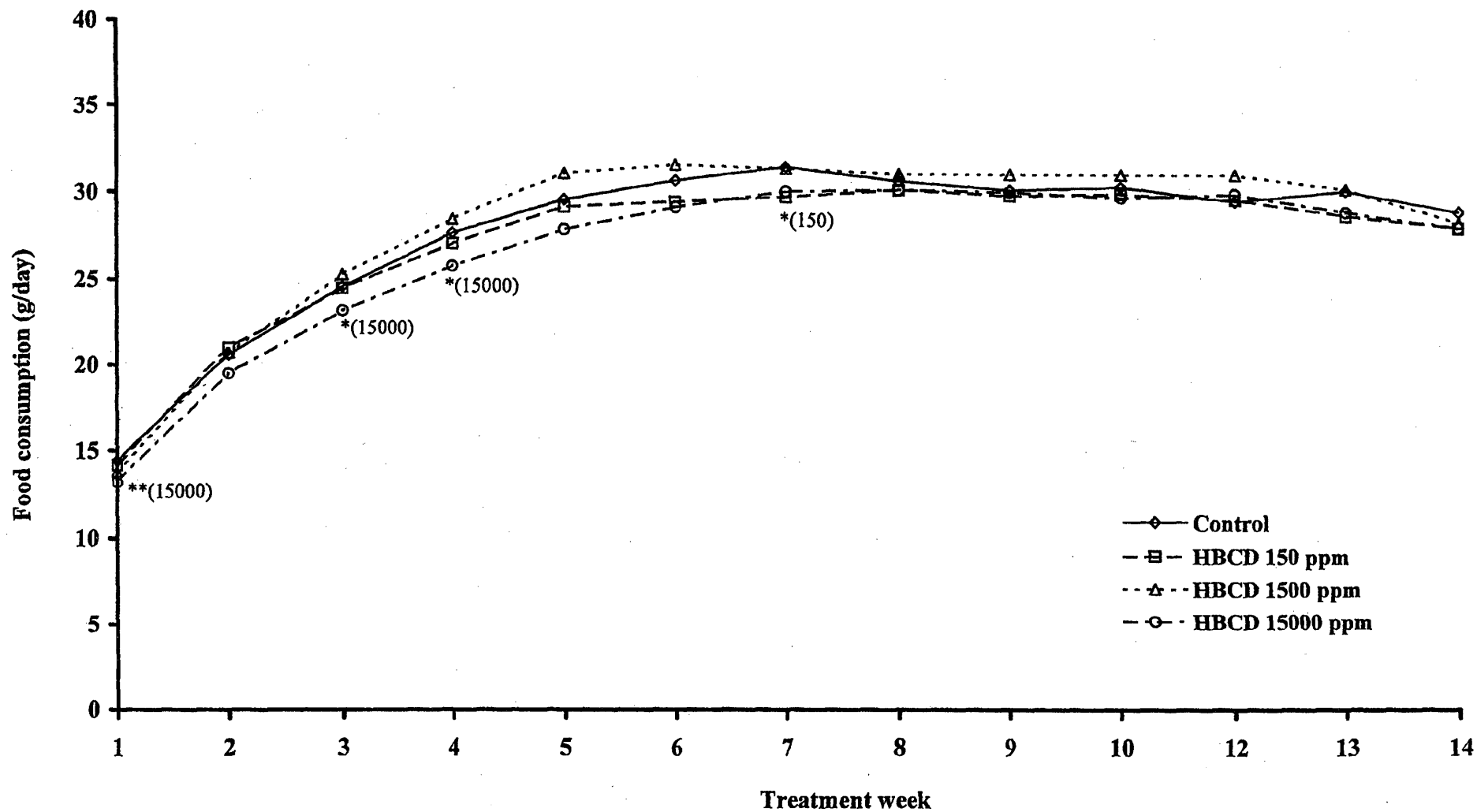


Figure 7 Food consumption of F1 parental male rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

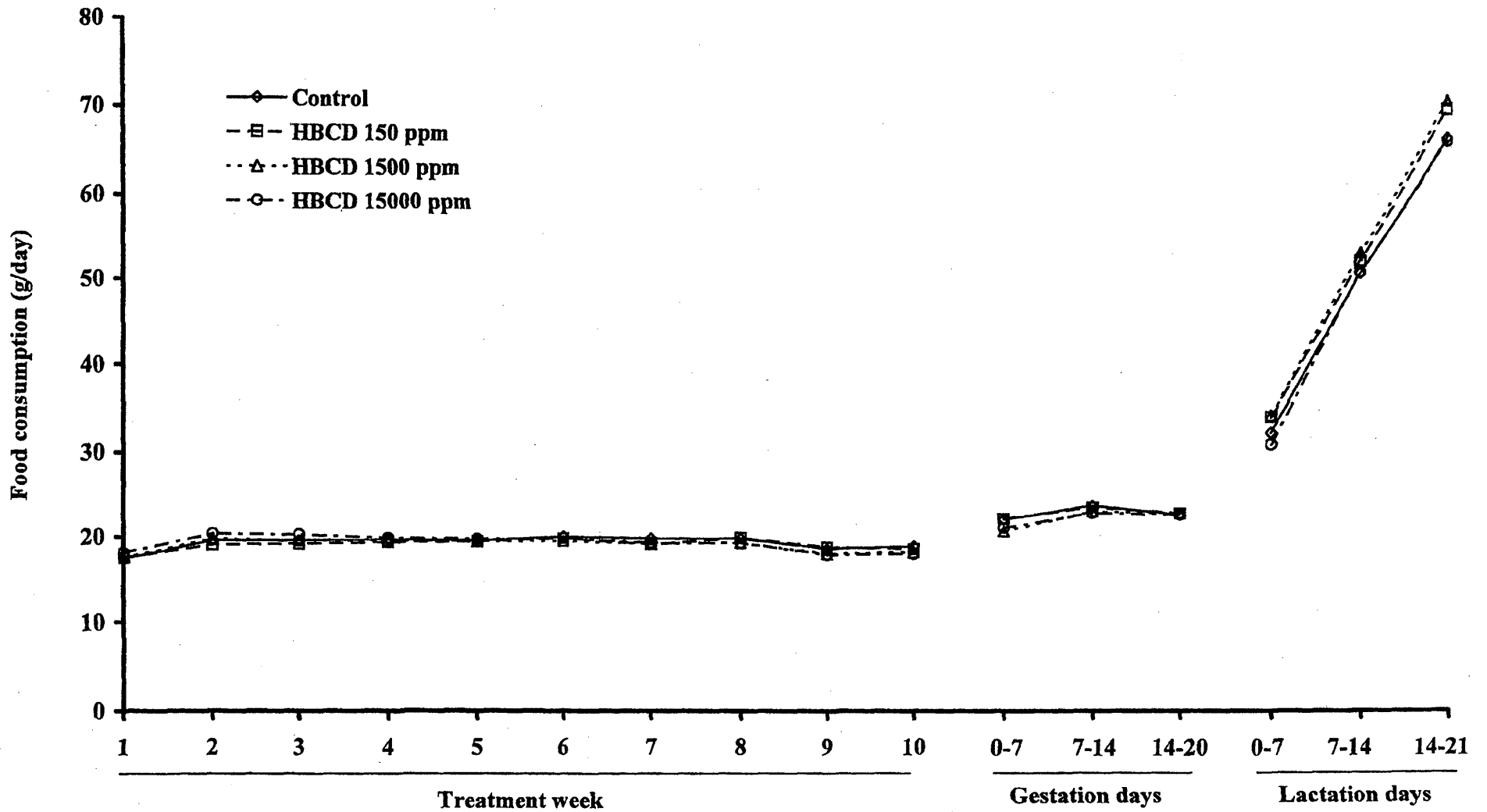


Figure 8 Food consumption of F0 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

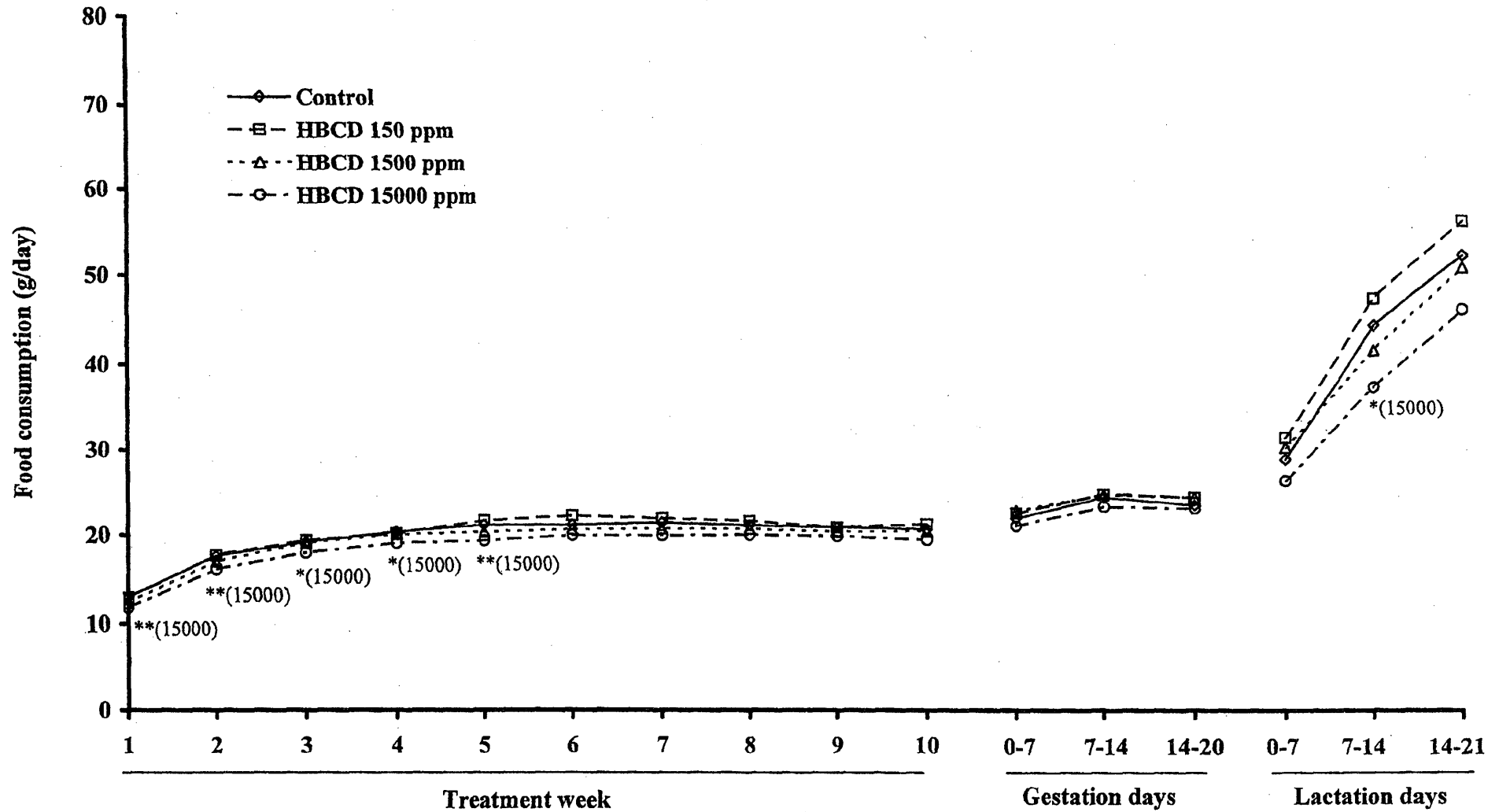


Figure 9 Food consumption of F1 parental female rats in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

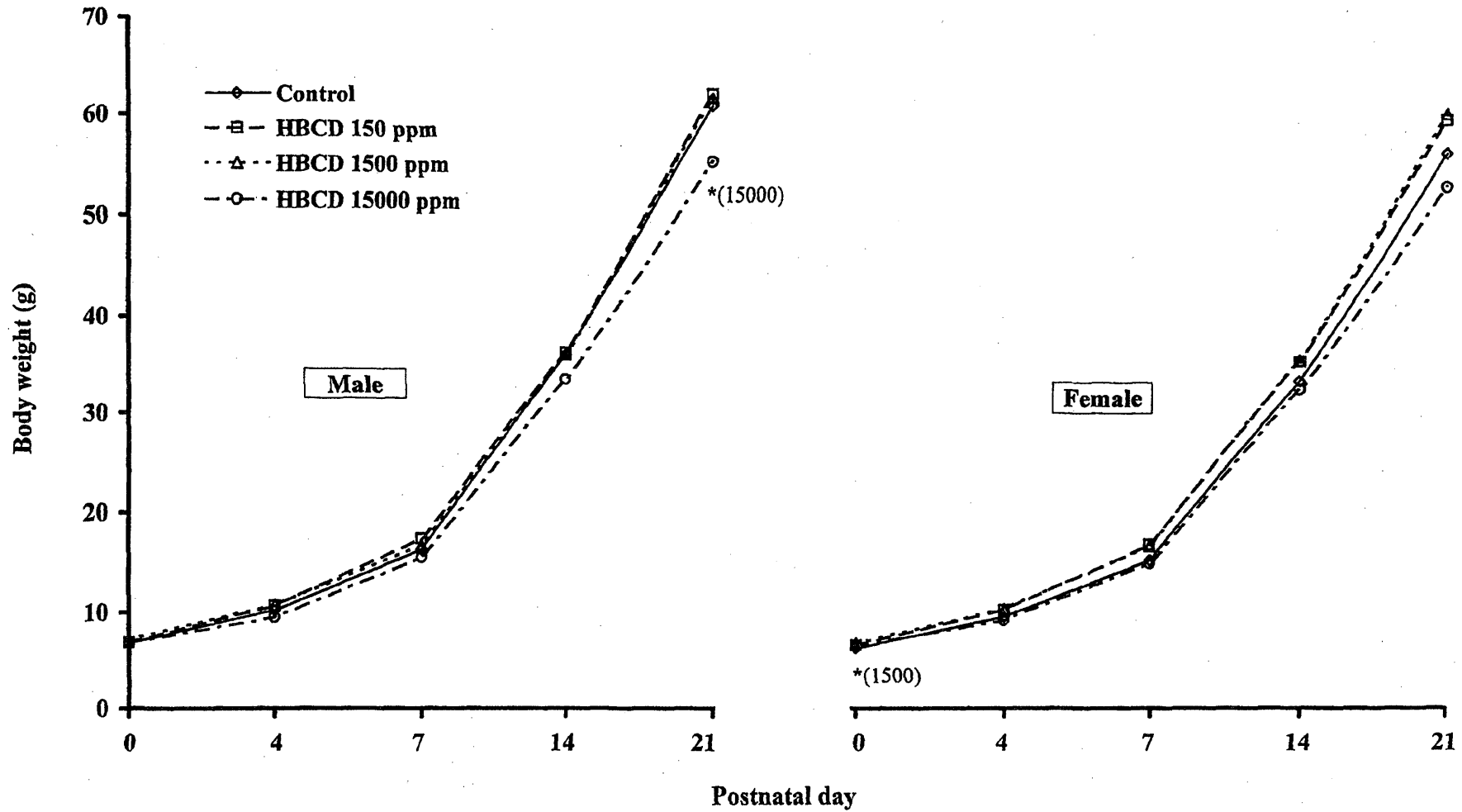


Figure 10 Body weights of F1 rat pups in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

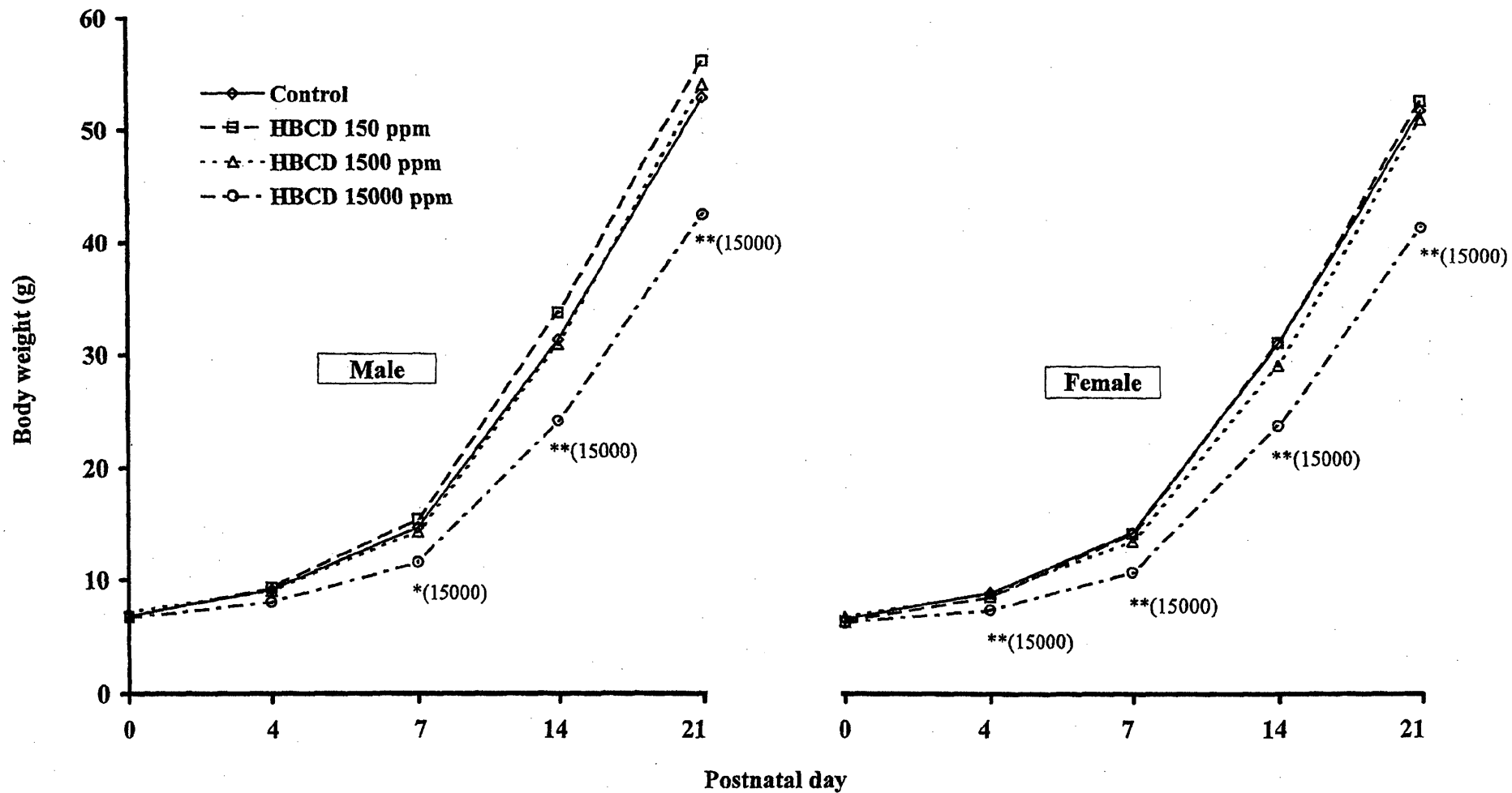


Figure 11 Body weights of F2 rat pups in the two-generation reproductive toxicity study with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) (SR04222)

*: Significantly different from the control at $p \leq 0.05$.

** : Significantly different from the control at $p \leq 0.01$.

Two-generation reproductive toxicity study in rats with 1,2,5,6,9,10-hexabromocyclododecane (SR04222)

Tables (1/3)

- 1 General appearance in F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 2 General appearance in F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 3 Body weights of F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 4 Body weights of F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 5 Body weight gains of F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 6 Body weight gains of F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 7 Food consumption of F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 8 Food consumption of F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 9 Test substance intake of F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 10 Test substance intake of F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 11 Vaginal estrous cycles in F0 and F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 12 Reproductive findings in F0 and F1 parental rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 13 Sperm number and motility in F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 14 Abnormal sperm ratio in F0 and F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 15 Sexual development in F1 parental rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 16 Locomotor activity count in F1 parental male rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)
- 17 Locomotor activity count in F1 parental female rats treated with 1,2,5,6,9,10-hexabromocyclododecane (HBCD) in the two-generation reproductive toxicity study (SR04222)