

TABLE 1.—SUBCHRONIC, CHRONIC, AND OTHER TOXICITY—Continued

Guideline No.	Study Type	Results
870.3800	Reproduction and fertility effects (rat)	Parental systemic NOAEL: 31.2/36.8 mg/kg/day (male/female) Parental systemic LOAEL: 163.4/188.8 mg/kg/day (male/female) (decreased bwt, bwt gain and absolute and relative thymus weights) Offspring systemic NOAEL: 9.8/11.5 mg/kg/day (male/female) Offspring systemic LOAEL: 31.2/36.8 mg/kg/day (male/female: decreased bwt gains and delayed sexual maturation (male); decreased absolute thymus weights in F1 pups of both sexes and an increase in stillbirths in both generations) Reproductive NOAEL: 31.2/188.8 mg/kg/day (male/female) Reproductive LOAEL: 163.4/not established mg/kg/day (male/female: decreased sperm motility, and increased number of sperm with detached heads in both generations)
870.4100	Chronic toxicity dogs	NOAEL: 46.4/40.1 mg/kg/day (male/female) LOAEL: Not established/52.9 mg/kg/day (male/female: clinical evidence of anemia in females). Note: dose-related decreases in ALT activity observed in mid- and high-dose males and females
870.4200	Carcinogenicity mice	NOAEL: 171.4/65.1 mg/kg/day (male/female) LOAEL: 254.1/215.9 mg/kg/day (male/female: decreased bwt and bwt gain; decreased food consumption and food efficiency in males at the LOAEL). No evidence of carcinogenicity
870.4300	Chronic feeding/Carcinogenicity rat	NOAEL: 82.0/32.5 mg/kg/day (male/female) LOAEL: 156.5/97.8 mg/kg/day (male/female, decreased bwt and food consumption and altered hepatocellular eosinophilic focus of the liver in both sexes; ovary interstitial gland hyperplasia and increased lymphohistiocytic infiltrate in females; and slightly increased incidences of pelvic mineralization and transitional cell hyperplasia in the kidney, mottled livers of males. No evidence of carcinogenicity
870.5100	Gene Mutation bacterial reverse mutation assay Parent	Small, but significant increase in frequency of histidine revertants in TA1535 strain treated at 1,500 and 5,000 µg/plate +/-S9; still present but weaker in its absence. The positive response was only reproducible at 5,000 µg/plate +/-S9. Clothianidin considered mutagenic under conditions of this test
870.5100	Gene Mutation bacterial reverse mutation assay Parent	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> and <i>Escherichia coli</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay Parent	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay Parent	Only TA 1535 tested. No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay BN0335E2 metabolite	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay TZMU metabolite	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay methyl guanidine intermediate	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay TZNG metabolite	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay
870.5100	Gene Mutation bacterial reverse mutation assay TMG metabolite	No mutagenic activity in bacteria ( <i>Salmonella typhimurium</i> ) under conditions of this assay