

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

Guideline No.	Study Type	Results
870.4100	Chronic-Feeding-Dog MK-0244	Systemic Toxicity NOAEL= 0.25 mg/kg/day. Systemic Toxicity LOAEL=0.5 mg/kg/day based on axonal degeneration in the pons, medulla and peripheral nerves (sciatic, sural, and tibial) in both sexes, clinical signs of neurotoxicity (whole body tremors, stiffness of the hind legs), spinal cord axonal degeneration, and muscle fiber degeneration in females.
870.4100	Chronic Feeding-Rat MK-0244	Systemic Toxicity NOAEL=1.0 mg/kg/day. Systemic Toxicity LOAEL=2.5 mg/kg/day, based on increased incidence of neuronal degeneration in the brain and spinal cord, decreased rearing, and an increased incidence of animals with low arousal.
870.4200	Carcinogenicity-Mouse (78-week) MK-0244	Systemic Toxicity NOAEL=2.5 mg/kg/day. Systemic Toxicity LOAEL=5.0 mg/kg/day for males and 7.5 mg/kg/day for females based on increased mortality, decreased weight gain, neurological signs, and increased incidence of severity of infections. There were no signs of carcinogenicity in this study.
870.4300	Chronic Toxicity/Carcinogenicity-Rat Emamectin	Systemic Toxicity NOAEL=1.0 mg/kg/day. Systemic Toxicity LOAEL=2.5/5.0 mg/kg/day based on marked neural degeneration in the brain and spinal cord of both sexes, brain white matter degeneration in males, and on decreased body weight, body weight gain, and food efficiency in males. There were no signs of carcinogenicity in this study. Note: The initial dose of the high dose group was 5.0 mg/kg/day. Due to unacceptable weight loss and/or tremors occurring at this dose in another concurrent study (TT#91-006-0) during week 9 in males and week 11 in females, the dose was lowered to 2.5 mg/kg/day starting at week 6 in males and week 10 in females.
870.5100	Gene Mutation - <i>Salmonella</i> MK-0243 and L-660,599; L-657,831; L-695,638; L-930,905 (photometabolites of MK-0244)	Negative for the induction of reverse gene mutation
870.5300	Gene Mutation in Cultured V-79 Chinese Hamster Lung Cells MK-0243	Negative for the induction of forward gene mutations in Chinese hamster lung fibroblast cells up to a severely cytotoxic nonactivated dose of 0.01mM or a severely cytotoxic S9-activated dose of 0.04mM.
870.5385	Structural Chromosome Aberration- <i>in vivo</i> mouse bone marrow MK-0244	Negative for the induction of chromosome aberrations in the bone marrow cells of male CD-1 mice.
870.5500	DNA Damage-Rat hepatocytes MK-0243	Negative for the induction of single strand breaks (SBs) in DNA of rat hepatocytes.
870.6200	Acute Oral Neurotoxicity -Rat MK-0243	A Neurotoxicity NOAEL was not established, since toxic signs of neurotoxicity as well as histological lesions in the brain, spinal cord and sciatic nerve occurred at all doses tested (27.4, 54.8 or 82.2 mg/kg)
870.6200	Subchronic Neurotoxicity-Rat MK-0243	Neurotoxicity NOAEL=1.0 mg/kg/day. LOAEL=5.0 mg/kg/day (highest dose tested) based on mild tremors, posture, rearing, excessive salivation, fur appearance, gait, strength, mobility and righting reflex.
870.6200	2-Week Dietary Neurotoxicity-CD-1 Mice MK-0243	Neurotoxicity NOAEL=2.0 mg/kg/day (highest dose tested). No characteristic neuronal lesions in the brain, spinal cord or sciatic nerve in mice of high dose group (2.0 mg/kg/day).
870.6200	15-day Dietary Neurotoxicity-CF-1 Mice MK-244	Neurotoxicity NOAEL=0.075 mg/kg/day. LOAEL=0.10 mg/kg/day based on tremors observed beginning on day 3, decreases in body weight and food consumption as well as degeneration of the sciatic nerve.