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		Avi Bob	an a whit	cut	e or uail	al L	D ₅₀		
		Test	ID.	# ES	-C1				

CITATION: Howard, D.J. and C.D. Johnston, 1971. CYTOX 2160-Safety Evaluation by Single Oral Administration to Bobwhite quail. 13 p. Study conducted by Woodard Research Corporation. Submitted by American Cyanamid Co., Acc # 130888, 10/19/71. Referenced for reg. # 1730-UG, 11/28/77.

RESULTS: Bobwhite quail acute oral LD₅₀ = 690 mg/kg (95% c.i. 511-932 mg/kg). At lowest level of 180 mg/kg, no motality occurred; 100% mortality occurred at highest level of 3200 mg/kg. The only signs of toxicity were depression and ruffled feathers. Food consumption and weight gain was somewhat reduced, compared to controls, for the first week after dosing, then improved thereafter.

VALIDATION CATEGORY: Core

CATEGORY RATIONALE: Although a finney probit analysis yielded an unacceptable chisquare of 10.02 (4 d.f.), a very close scrutiny of the litchfield-wilcoxon graph that was included showed a chisquare value of 8.04, and when plotted again, this reviewer obtained a value of 7.9, both of which are acceptable.

ABSTRACT: Bobwhite quail were given single oral doses by intubation of CYTOX 2160 of O(control), 180, 320, 560, 1000, 1800, and 3200 ppm. Procedures followed proposed guidelines except as noted:

- 1. Age was not specified beyond "young adults".
- 2. Twenty birds were tested at the four intermediate doses, but only 10 birds were tested at lowest and highest doses.
- 2. Housing conditions were incompletely reported. Statistical analysis followed Litchfield and Wilcoxon (1949). When checked by Finney probit, a similar IC₅₀ of 684 mg/kg was obtained, but with a chisquare of 10.02. When rechecked by Litchfield-Wilcoxon, an IC₅₀ value of 690 mg/kg was obtained with an acceptable chisquare of 7.90 for 4 degrees of freedom.

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