

Appendix E
HED Genetic Toxicity Profile

Table E-1 Genetic Toxicity Profile for Oxyfluorfen (96-99 %)

Assay	Test Material			MRID No.	Result
	ID	Lot No.	Purity (%)		
Ames	RH-2915	TTF068	99.7	00098421	Neg. to HDT (7500 µg/plate); no ppt.
Mouse Lymphoma	RH-2915	0453	99.7	00098419	Neg; ppt at ≥62.5 µg/mL
Ames ^a	AG 510 Tech.	252/1	96	44942801	Pos. TA 100 at high insoluble doses (≥1667 µg/plate +S9)
Ames ^a	AG 510 Tech.	252/1	96	44933104	Neg to HDT (5000 µg/plate); insoluble at this level
Mouse Micronucleus	AG 510 Tech.	P-8	96	44933105	Neg to HDT (2000 mg/kg, ip); cytotoxic to bone marrow
In vivo Rat UDS	AG 510 Tech.	P-8	96	44933106	Neg to HDT (2000 mg/kg)
Ames	Goal Herb	NA	99.2	44947206	Neg; unacceptable but upgradable
Mouse Lymphoma	Goal Tech Herb	NA	97.1	44947202	Neg; ppt. not reported
CHO/HGPRT	Goal Tech Purified Herb	NA	99.2	44947205	Neg; ppt at ≥50 µg/mL
CHO/Chromo Aberrations	Goal Tech Purified Herb	NA	99.2	44947204	Neg; ppt at ≥450 µg/mL
In vivo Mouse Cytogenetics	Goal Tech Purified Herb	NA	97.1	44947203	Neg to HDT (5000 mg/kg)
Bacterial DNA Damage/Repair	Goal Tech Herb	NA	97.1	44947201	Neg; ppt. at 1000 µg/plate

^a The two Ames studies were conducted in different contract laboratories; each protocol required the performance of two independent trials.

Abbreviations:

HDT = Highest dose tested; ppt = precipitation; ip = intraperitoneal; NA = not available

This table is from the HIARC report dated 4/23/01.

Table E-2 Genetic Toxicity Profile for Oxyfluorfen (71 %)

Assay	Test Material			MRID No.	Result
	ID	Lot No.	Purity (%)		
Ames	Goal Herb Tech	AMB18-42A	71.4	40992201	Pos strains TA98 & TA100 at insoluble (≥1600 µg/plate +S9) and soluble (900 µg/plate +S9) doses; weak unconfirmed response -S9
In vivo Rat Cytogenetics	Goal Herb Tech	2-0956	71.4	41873801	Neg to HDT (5 g/kg)
<i>In vivo</i> Rat Cytogenetics	Goal Herb Tech	2-3985	72.5	00098418	Neg up to lethal dose (1.19 mg/kg)
Ames	RH-2915	2-3985	72.7	00098420	Pos. strain TA1537 (≥2500 µg/plate +S9; ≥6000 µg/mL -S9); TA98 (≥500 µg/plate +S9; ≥1000 µg/mL -S9); TA100 (≥250 µg/plate +S9; ≥2500 µg/mL -S9); no ppt reported
Mouse Lymphoma	RH-2915	2-3985	72.7	00109283	Pos. 1.95-40 µg/mL +S9; no dose response; ppt at ≥62 µg/mL
<i>In vitro</i> UDS Rat Hepato	RH-2915	7530	73	00098423	Neg to cytotox doses (25 µg/mL)
Ames	Polar fraction RH-2915, Lot #2-3985	WJZ 1861	NA	00098422	Pos. (only tested TA98) ; 50-7500 µg/plate +/-S9 not dose related; stronger response +S9
<i>In vitro</i> UDS Rat Hepato	Polar fraction RH-2915, Lot #2-3985	WJZ 1861	NA	00098424	Neg up to cytotox dose (25 µg/mL)

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