

**Study Number:** C08004-04  
**Test Type:** TOX  
**Route:** Dosing in Water  
**Species/Strain:** Mouse/B6C3F1/N

**PA10X: Statistical Analysis of Non-Neoplastic Lesions**  
**Test Compound:** Vanadyl sulfate  
**CAS Number:** 27774-13-6

**Date Report Requested:** 02/14/2022  
**Time Report Requested:** 06:17:17  
**Lab:** Battelle

**Study Number:** C08004-04  
**Study Gender:** Both  
**PWG Approval Date:** See web page for date of PWG Approval  
**Version:** v1.3.7  
**Stat Version:** S

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Male : Core Males

Treatment Groups (mg/L)

	0	21.0	41.9	83.8	168	335
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	10	10	10	10	10	10
Number Animals Examined Microscopically	10		9	9	10	10
<b>ALIMENTARY SYSTEM</b>						
INTESTINE, SMALL, ILEUM	(10)	(0)	(9)	(9)	(9)	(10)
EPITHELIUM; HYPERPLASIA	0 **			2 (22.2%)	3 (33.3%)	9 (90%) **
INTESTINE, SMALL, JEJUNUM	(10)	(0)	(0)	(0)	(10)	(10)
EPITHELIUM; HYPERPLASIA						1 (10%)
INTESTINE, SMALL: ANY SITE	(10)	(0)	(9)	(9)	(10)	(10)
EPITHELIUM, HYPERPLASIA	0 **			2 (22.2%)	3 (30%)	9 (90%) **
INTESTINE: ANY SITE	(10)	(0)	(9)	(9)	(10)	(10)
EPITHELIUM, HYPERPLASIA	0 **			2 (22.2%)	3 (30%)	9 (90%) **
LIVER	(10)	(0)	(0)	(0)	(0)	(10)
INFILTRATION, CELLULAR; MIXED CELL						3 (30%)
SALIVARY GLANDS	(10)	(0)	(0)	(0)	(0)	(10)
INFILTRATION, CELLULAR; MONONUCLEAR CELL	1 (10%)					
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
None						

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Treatment Groups (mg/L)

0 21.0 41.9 83.8 168 335

GENERAL BODY SYSTEM

None

GENITAL SYSTEM

PROSTATE	(10)	(0)	(0)	(0)	(0)	(10)
INFILTRATION, CELLULAR; MONONUCLEAR CELL	1 (10%)					

HEMATOLYMPHOID SYSTEM

SPLEEN	(10)	(0)	(0)	(0)	(0)	(10)
EXTRAMEDULLARY HEMATOPOEISIS; INCREASED	1 (10%)					1 (10%)

INTEGUMENTARY SYSTEM

None

MUSCULOSKELETAL SYSTEM

None

NERVOUS SYSTEM

None

RESPIRATORY SYSTEM

None

SPECIAL SENSES SYSTEM

None

URINARY SYSTEM

KIDNEY	(10)	(0)	(0)	(0)	(0)	(10)
CHRONIC PROGRESSIVE NEPHROPATHY	3 (30%)					1 (10%)
INFARCT	1 (10%)					
INFILTRATION, CELLULAR; MONONUCLEAR CELL	5 (50%)					2 (20%)
PELVIS; INFLAMMATION; ACUTE						1 (10%)

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Female : Core Females

	Treatment Groups (mg/L)					
	0	21.0	41.9	83.8	168	335
<b>Disposition Summary</b>						
Animals Initially In Study	10	10	10	10	10	10
Censored						
Early Deaths						
Survivors						
Scheduled Sacrifice, Terminal	10	10	10	10	10	10
Number Animals Examined Microscopically	10		10	10	10	10
<b>ALIMENTARY SYSTEM</b>						
INTESTINE, SMALL, ILEUM	(10)	(0)	(10)	(9)	(10)	(10)
EPITHELIUM; HYPERPLASIA	0 **			1 (11.1%)	5 (50%) *	10 (100%) **
INTESTINE, SMALL, JEJUNUM	(10)	(0)	(10)	(10)	(10)	(10)
EPITHELIUM; HYPERPLASIA	0 *				1 (10%)	2 (20%)
INTESTINE, SMALL: ANY SITE	(10)	(0)	(10)	(10)	(10)	(10)
EPITHELIUM, HYPERPLASIA	0 **			1 (10%)	5 (50%) *	10 (100%) **
INTESTINE: ANY SITE	(10)	(0)	(10)	(10)	(10)	(10)
EPITHELIUM, HYPERPLASIA	0 **			1 (10%)	5 (50%) *	10 (100%) **
LIVER	(10)	(0)	(0)	(0)	(0)	(10)
INFILTRATION, CELLULAR; MIXED CELL	3 (30%)					1 (10%)
NECROSIS; FOCAL	1 (10%)					
<b>CARDIOVASCULAR SYSTEM</b>						
None						
<b>ENDOCRINE SYSTEM</b>						
THYROID GLAND	(10)	(0)	(0)	(0)	(0)	(10)
THYMUS; ECTOPIC TISSUE						1 (10%)

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	0	21.0	41.9	83.8	168	335
<b>GENERAL BODY SYSTEM</b>						
None						
<b>GENITAL SYSTEM</b>						
OVARY	(10)	(0)	(0)	(0)	(0)	(10)
THROMBUS	1 (10%)					
<b>HEMATOLYMPHOID SYSTEM</b>						
SPLEEN	(10)	(0)	(0)	(0)	(0)	(10)
EXTRAMEDULLARY HEMATOPOEISIS; INCREASED	2 (20%)					4 (40%)
<b>INTEGUMENTARY SYSTEM</b>						
None						
<b>MUSCULOSKELETAL SYSTEM</b>						
MUSCLE, THIGH	(10)	(0)	(0)	(0)	(0)	(10)
DEGENERATION	1 (10%)					
<b>NERVOUS SYSTEM</b>						
None						
<b>RESPIRATORY SYSTEM</b>						
None						
<b>SPECIAL SENSES SYSTEM</b>						
None						
<b>URINARY SYSTEM</b>						
KIDNEY	(10)	(0)	(0)	(0)	(0)	(10)
CHRONIC PROGRESSIVE NEPHROPATHY	1 (10%)					2 (20%)
INFILTRATION, CELLULAR; MONONUCLEAR CELL	5 (50%)					1 (10%)

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#### LEGEND

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Number of animals examined for each tissue shown in parentheses. If none of the animals examined have the specific lesion then there is a blank for that dose group for that specific lesion. The exception to this is if statistical significance is found for a lesion and the control group has no animals with the lesion then a 0 is included for the control group on the table for that lesion.

Number of animals with observation reported with percent incidence in parentheses

Statistical analysis performed by Cochran-Armitage (trend) and Fisher Exact (pairwise) one-sided tests.

Statistical significance for the control group indicates a significant trend test

Statistical significance for a treatment group indicates a significant pairwise test compared to the vehicle control group

\* Statistically significant at  $P \leq 0.05$

\*\* Statistically significant at  $P \leq 0.01$

**\*\* END OF REPORT \*\***