RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH Summary of Female Rats, Study R92025B 4-Methylimidazole F0

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Overall	0.013	
Overall Tests	Low vs. Controls	0.044	N
Overall Tests	Mid vs. Controls	0.555	N
Overall Tests	High vs. Controls	0.013	N
Extended Estrus	Overall	0.001	
Extended Estrus	Low vs. Controls	0.004	
Extended Estrus	Mid vs. Controls	0.8	
Extended Estrus	High vs. Controls	0.002	N
Extended Diestrus	Overall	0.04	
Extended Diestrus	Low vs. Controls	0.407	N
Extended Diestrus	Mid vs. Controls	0.206	
Extended Diestrus	High vs. Controls	0.016	
Extended Metestrus	Overall	1	
Extended Metestrus	Low vs. Controls	1	
Extended Metestrus	Mid vs. Controls	1	
Extended Metestrus	High vs. Controls	1	
Extended Proestrus	Overall	1	
Extended Proestrus	Low vs. Controls	1	
Extended Proestrus	Mid vs. Controls	1	
Extended Proestrus	High vs. Controls	1	
Skipped Estrus	Overall	0.321	
Skipped Estrus	Low vs. Controls	0.437	N
Skipped Estrus	Mid vs. Controls	0.181	N
Skipped Estrus	High vs. Controls	0.292	N
Skipped Diestrus	Overall	0.169	
Skipped Diestrus	Low vs. Controls	0.143	N
Skipped Diestrus	Mid vs. Controls	0.181	N
Skipped Diestrus	High vs. Controls	0.292	Ν

Note: N under trend indicates that the dosed group had fewer departures from normal than did the control group. *Having no N under trend column indicates that the dosed group had more departures from normal than did the control group.*

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH Summary of Female Rats, Study R92025B 4-Methylimidazole F0 Summary of Significant Groups

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Low vs. Controls	0.044	Ν
Overall Tests	High vs. Controls	0.013	N
Extended Estrus	Low vs. Controls	0.004	
Extended Estrus	High vs. Controls	0.002	Ν
Extended Diestrus	High vs. Controls	0.016	

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH Summary of Female Rats, Study R92025B 4-Methylimidazole F1c Parental

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Overall	< 0.001	
Overall Tests	Low vs. Controls	0.002	
Overall Tests	Mid vs. Controls	< 0.001	N
Extended Estrus	Overall	0.011	
Extended Estrus	Low vs. Controls	0.335	Ν
Extended Estrus	Mid vs. Controls	0.005	N
Extended Diestrus	Overall	< 0.001	
Extended Diestrus	Low vs. Controls	< 0.001	
Extended Diestrus	Mid vs. Controls	< 0.001	
Extended Metestrus	Overall	1	
Extended Metestrus	Low vs. Controls	1	
Extended Metestrus	Mid vs. Controls	1	
Extended Proestrus	Overall	1	
Extended Proestrus	Low vs. Controls	1	
Extended Proestrus	Mid vs. Controls	1	
Skipped Estrus	Overall	0.37	
Skipped Estrus	Low vs. Controls	0.885	N
Skipped Estrus	Mid vs. Controls	0.161	N
Skipped Diestrus	Overall	1	
Skipped Diestrus	Low vs. Controls	1	
Skipped Diestrus	Mid vs. Controls	1	

Note: N under trend indicates that the dosed group had fewer departures from normal then did the control group. Having no N under trend column indicates that the dosed group had more departures from normal than did the control group.

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH Summary of Female Rats, Study R92025B 4-Methylimidazole F1c Parental Summary of Significant Groups

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Low vs. Controls	0.002	
Overall Tests	Mid vs. Controls	< 0.001	Ν
Extended Estrus	Mid vs. Controls	0.005	Ν
Extended Diestrus	Low vs. Controls	< 0.001	
Extended Diestrus	Mid vs. Controls	< 0.001	