

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH
Summary of Female Rats, Study R88007B Butyl Paraben F0

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Overall	<0.001	
Overall Tests	Low vs. Controls	0.774	N
Overall Tests	Mid vs. Controls	<0.001	N
Overall Tests	High vs. Controls	<0.001	N
Extended Estrus	Overall	<0.001	
Extended Estrus	Low vs. Controls	0.467	
Extended Estrus	Mid vs. Controls	<0.001	N
Extended Estrus	High vs. Controls	<0.001	N
Extended Diestrus	Overall	0.005	
Extended Diestrus	Low vs. Controls	0.108	N
Extended Diestrus	Mid vs. Controls	0.042	N
Extended Diestrus	High vs. Controls	0.022	N
Extended Metestrus	Overall	0.811	
Extended Metestrus	Low vs. Controls	0.643	N
Extended Metestrus	Mid vs. Controls	0.603	N
Extended Metestrus	High vs. Controls	0.582	N
Extended Proestrus	Overall	0.67	
Extended Proestrus	Low vs. Controls	1	
Extended Proestrus	Mid vs. Controls	0.998	
Extended Proestrus	High vs. Controls	0.132	
Skipped Estrus	Overall	0.114	
Skipped Estrus	Low vs. Controls	0.184	N
Skipped Estrus	Mid vs. Controls	0.155	N
Skipped Estrus	High vs. Controls	0.141	N
Skipped Diestrus	Overall	0.03	
Skipped Diestrus	Low vs. Controls	0.103	N
Skipped Diestrus	Mid vs. Controls	0.081	N
Skipped Diestrus	High vs. Controls	0.071	N

**Note: N under trend indicates that dosed group had fewer departures from normal than control group.
Blank trend indicates that dosed group had more departures from normal than the control group.**

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH
Summary of Female Rats, Study R88007B Butyl Paraben F1c Parental

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Mid vs. Controls	<0.001	N
Overall Tests	High vs. Controls	<0.001	N
Extended Estrus	Mid vs. Controls	<0.001	N
Extended Estrus	High vs. Controls	<0.001	N
Extended Diestrus	Mid vs. Controls	0.042	N
Extended Diestrus	High vs. Controls	0.022	N

*Note: N under trend indicates that dosed group had fewer departures from normal than control group.
Blank trend indicates that dosed group had more departures from normal than the control group.*

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH
Summary of Female Rats, Study R88007B Butyl Paraben F1c Parental

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Overall	<0.001	
Overall Tests	Low vs. Controls	0.001	
Overall Tests	Mid vs. Controls	<0.001	N
Overall Tests	High vs. Controls	0.003	N
Extended Estrus	Overall	0.001	
Extended Estrus	Low vs. Controls	0.003	
Extended Estrus	Mid vs. Controls	0.003	
Extended Estrus	High vs. Controls	0.81	N
Extended Diestrus	Overall	<0.001	
Extended Diestrus	Low vs. Controls	0.148	
Extended Diestrus	Mid vs. Controls	<0.001	N
Extended Diestrus	High vs. Controls	<0.001	N
Extended Metestrus	Overall	0.637	
Extended Metestrus	Low vs. Controls	1	N
Extended Metestrus	Mid vs. Controls	0.645	
Extended Metestrus	High vs. Controls	0.181	
Extended Proestrus	Overall	1	
Extended Proestrus	Low vs. Controls	1	
Extended Proestrus	Mid vs. Controls	0.997	
Extended Proestrus	High vs. Controls	1	
Skipped Estrus	Overall	0.569	
Skipped Estrus	Low vs. Controls	0.702	
Skipped Estrus	Mid vs. Controls	0.189	N
Skipped Estrus	High vs. Controls	0.701	N
Skipped Diestrus	Overall	0.006	
Skipped Diestrus	Low vs. Controls	0.314	N
Skipped Diestrus	Mid vs. Controls	0.004	
Skipped Diestrus	High vs. Controls	0.081	

**Note: N under trend indicates that dosed group had fewer departures from normal than control group.
Blank trend indicates that dosed group had more departures from normal than the control group.**

RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH
Summary of Female Rats, Study R88007B Butyl Paraben F1c Parental
Summary of Significant Groups

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Low vs. Controls	0.001	
Overall Tests	Mid vs. Controls	<0.001	N
Overall Tests	High vs. Controls	0.003	N
Extended Estrus	Low vs. Controls	0.003	
Extended Estrus	Mid vs. Controls	0.003	
Extended Diestrus	Mid vs. Controls	<0.001	N
Extended Diestrus	High vs. Controls	<0.001	N
Skipped Diestrus	Mid vs. Controls	0.004	

*Note: N under trend indicates that dosed group had fewer departures from normal than control group.
Blank trend indicates that dosed group had more departures from normal than the control group.*