

**RESULTS OF VAGINAL CYTOLOGY STUDY USING TRANSITION MATRIX APPROACH**  
**Summary of Female Rats, Study C07040, Perfluorobutane Sulfonate**

STAGE	COMPARISON	P_VALUE	TREND
Overall Tests	Overall	<0.001	
Overall Tests	Low vs. Controls	0.449	
Overall Tests	Mid vs. Controls	<0.001	
Overall Tests	High vs. Controls	<0.001	
Extended Estrus	Overall	<0.001	
Extended Estrus	Low vs. Controls	0.15	
Extended Estrus	Mid vs. Controls	0.058	N
Extended Estrus	High vs. Controls	<0.001	N
Extended Diestrus	Overall	<0.001	
Extended Diestrus	Low vs. Controls	0.063	
Extended Diestrus	Mid vs. Controls	<0.001	
Extended Diestrus	High vs. Controls	<0.001	
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	

*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.*

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<b>STAGE</b>	<b>COMPARISON</b>	<b>P_VALUE</b>	<b>TREND</b>
Skipped Estrus	Overall	0.999	
Skipped Estrus	Low vs. Controls	1	
Skipped Estrus	Mid vs. Controls	0.931	
Skipped Estrus	High vs. Controls	0.92	
Skipped Diestrus	Overall	0.464	
Skipped Diestrus	Low vs. Controls	0.321	N
Skipped Diestrus	Mid vs. Controls	0.343	N
Skipped Diestrus	High vs. Controls	0.411	N

*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 C07040, Perfluorobutane Sulfonate***  
***Summary of Significant Groups***

<b>STAGE</b>	<b>COMPARISON</b>	<b>P_VALUE</b>	<b>TREND</b>
Overall Tests	Mid vs. Controls	<0.001	
Overall Tests	High vs. Controls	<0.001	
Extended Estrus	High vs. Controls	<0.001	N
Extended Diestrus	Mid vs. Controls	<0.001	
Extended Diestrus	High vs. Controls	<0.001	

***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.***