Labs were coded as Argus = 1, Wil =2 and Huntingdon =3.

WIL males

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
Vinclozolin										
Final report from lab										
no outliers identified	Low dose	− (-1%)	−	−	−	−	−	−	−	−
	High dose	− (- 0%)	−	↑	−	↑	−	−	↓	−
Final interlab comparison										
no outliers identified	Low dose	−	−	−	−	−	−	−	↓	−
	High dose	−	−	↑	−	↑	−	−	↓	−
Dibutylphthalate										
Final report from lab										
no outliers identified	Low dose	− (- 5%)	−	−	−	−	−	−	↓	−
	High dose	↓ (- 6%)	↓	↑	−	−	−	−	↓	↓
Final interlab comparison										
no outliers identified	Low dose	↓	−	−	−	−	−	−	↓	−
	High dose	↓	↓	↑	−	−	−	−	↓	↓
DE-71										
Final report from lab										
no outliers identified	Low dose	− (- 2%)	−	↑	−	−	−	−	↓	↑
	High dose	− (- 4%)	−	↑	−	−	−	−	↓	↑
Final interlab comparison										
no outliers identified	Low dose	−	−	↑	−	−	−	−	↓	↑
	High dose	−	−	↑	−	−	−	−	↓	↑
2-Chloronitrobenzene										
Final report from lab										
no outliers identified	Low dose	− (-1%)	−	↑	−	−	−	−	−	−
	High dose	− (- 5%)	−	↑	−	−	↓	−	−	−
Final interlab comparison										
no outliers identified	Low dose	−	−	↑	−	−	−	−	−	−
	High dose	↓	↓	↑	−	−	↓	↓	−	−

WIL males

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
Vinclozolin												
Final report from lab												
no outliers	Low dose	↑ 1.9	↑	-	-	↓	-	-	-	nr	-	-
identified	High dose	↑ 5.2	↑	-	-	↓	-	-	↓	nr	↓	-
Final interlab comparison												
no outliers	Low dose	↑ 1.8	↑	-	-	↓	-	-	↓	nr	-	-
identified	High dose	↑ 5.2	↑	-	-	↓	↓	-	↓	nr	↓	-
Dibutylphthalate												
Final report from lab												
no outliers	Low dose	-	-	↓	↓	↓	-	-	↓	nr	↓	↓
identified	High dose	-	-	↓	↓	↓	-	↓	↓	nr	↓	↓
Final interlab comparison												
no outliers	Low dose	-	-	↓	↓	↓	↓	-	↓	nr	↓	↓
identified	High dose	-	-	↓	↓	↓	↓	↓	↓	nr	↓	↓
DE-71												
Final report from lab												
no outliers	Low dose	-	–	-	-	-	-	-	-	nr	-	-
identified	High dose	-	–	-	-	-	-	-	-	nr	-	-
Final interlab comparison												
no outliers	Low dose	-	–	-	-	-	-	-	-	nr	-	-
identified	High dose	-	–	-	-	-	-	-	-	nr	↓	-
2-Chloronitrobenzene												
Final report from lab												
no outliers	Low dose	-	–	-	-	-	-	-	-	nr	-	-
identified	High dose	↑ 2.0	–	-	-	-	↓	-	↓	nr	↓	-
Final interlab comparison												
no outliers	Low dose	-	–	-	-	-	-	-	-	nr	-	-
identified	High dose	↑ 2.0	–	-	-	-	↓	-	↓	nr	↓	↓

Argus males

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Vinclozolin

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (+1%)	-	-	-	-	-	-	↓	-
identified	High dose	↓ (- 6%)	-	-	-	↑	-	-	↓	-

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	-	-	-	-	-	-	-	↓	-
identified	High dose	↓	↓	-	-	↑	-	-	↓	-

Dibutylphthalate

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	↓ (- 4%)	-	-	-	-	-	-	↓	↓
identified	High dose	↓ (- 8%)	-	↑	-	-	-	-	↓	-

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	↓	↓	-	-	-	-	-	↓	↓
	High dose	↓	↓	↑	-	-	-	-	↓	-
outliers excluded	Low dose				-			-		
	High dose									

DE-71

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (- 3%)	-	↑	-	-	-	-	↓	-
identified	High dose	– (- 3%)	-	↑	-	-	-	-	↓	-

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	–	-	↑	-	-	-	-	↓	-
	High dose	–	-	↑	-	-	-	-	↓	-
outliers excluded	Low dose									
	High dose					-				

2-Chloronitrobenzene

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (- 2%)	-	↑	↑	-	-	-	↑	-
identified	High dose	↓ (- 6%)	-	↑	↑	-	-	-	↑	-

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	–	–	↑	↑	-	-	-	↑	-
	High dose	↓	↓	↑	↑	-	-	-	↑	-
outliers excluded	Low dose									
	High dose							-		

Argus males

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone

Vinclozolin

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	↑ 3.3	↑	↑	-	-	-	-	-	-	-	-
	High dose	↑ 7.1	↑	↑	-	↓	-	-	↓	↓	↓	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	↑ 4.0	↑	-	-	-	-	-	-	nr	-	-
	High dose	↑ 7.6	↑	↑	-	↓	-	-	↓	nr	↓	↑

Dibutylphthalate

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	↑ 2.7	↑	↓	↓	↓	↓	-	↓	-	↓	-
	High dose	↑ 2.3	-	↓	↓	↓	-	-	↓	-	↓	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	↑ 3.6	↑	↓	↓	↓	↓	-	↓	nr	↓	↓
	High dose	↑ 3.1	-	↓	↓	↓	-	-	↓	nr	↓	↓
outliers excluded	Low dose											
	High dose							-			↓	

DE-71

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	-	-	↑	-	-	-	-	-	-	-	-
	High dose	↑ 2.2	-	-	-	-	-	-	-	-	-	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	-	-	-	-	-	-	-	-	nr	-	-
	High dose	↑ 3.0	↑	-	-	-	-	-	-	nr	-	-
outliers excluded	Low dose											
	High dose											

2-Chloronitrobenzene

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	-	-	-	-	-	-	-	-	-	-	-
	High dose	↑ 2.0	-	-	↓	-	↓	-	-	-	↓	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	-	-	-	-	-	-	-	-	nr	-	-
	High dose	↑ 3.0	↑	-	↓	-	↓	-	-	nr	↓	↓
outliers excluded	Low dose											
	High dose											

Huntingdon males

Huntingdon males		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Vinclozolin

Final report from lab

| no outliers identified | Low dose | − (-9%) | ↓ | − | − | − | − | − | ↓ | − |
| | High dose | − (-7%) | ↓ | − | − | − | − | − | ↓ | − |

Final interlab comparison

outliers included	Low dose	↓	↓	−	↓	−	−	−	↓	−
	High dose	↓	↓	−	↓	−	−	−	↓	−
outliers excluded	Low dose	↓	↓							
	High dose	↓	↓							

Dibutylphthalate

Final report from lab

| no outliers identified | Low dose | − (+1%) | − | ↑ | ↑ | − | − | − | ↓ | ↓ |
| | High dose | − (-2%) | − | ↑ | − | − | − | − | ↓ | ↓ |

Final interlab comparison

outliers included	Low dose	−	−	↑	−	−	−	−	↓	↓
	High dose	−	−	↑	−	−	−	−	↓	↓
outliers excluded	Low dose									
	High dose			↑						

DE-71

Final report from lab

| no outliers identified | Low dose | − (-8%) | ↓ | ↑ | ↓ | − | − | − | ↓ | ↑ |
| | High dose | − (-5%) | ↓ | ↑ | − | − | − | − | ↓ | ↑ |

Final interlab comparison

outliers included	Low dose	↓	↓	↑	↓	−	−	−	↓	−
	High dose	−	↓	↑	−	−	−	−	↓	↑
outliers excluded	Low dose	↓	↓							
	High dose	−	↓							

2-Chloronitrobenzene

Final report from lab

| no outliers identified | Low dose | − (+4%) | ↑ | ↑ | ↑ | − | − | − | ↑ | − |
| | High dose | − (-1%) | − | ↑ | ↑ | − | − | − | − | ↓ |

Final interlab comparison

outliers included	Low dose	−	−	↑	↑	−	−	−	↑	−
	High dose	−	−	↑	↑	−	−	−	−	↓
outliers excluded	Low dose									
	High dose									

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
Vinclozolin												
Final report from lab												
no outliers identified	Low dose	↑ 3.3	↑	↑	↑	↓	-	-	-	nr	↓	-
	High dose	↑ 6.4	↑	↑	↑	↓	-	-	↓	nr	↓	↑
Final interlab comparison												
outliers included	Low dose	↑ 3.3	-	-	↑	↓	-	↓	-	nr	↓	-
	High dose	↑ 6.8	↑	-	↑	↓	-	-	↓	nr	↓	↑
outliers excluded	Low dose											
	High dose											
Dibutylphthalate												
Final report from lab												
no outliers identified	Low dose	-	-	↓	↓	↓	-	-	↓	nr	↓	-
	High dose	↑ 2.7	-	↓	↓	↓	-	-	↓	nr	↓	↓
Final interlab comparison												
outliers included	Low dose	-	-	↓	↓	↓	-	-	-	nr	↓	-
	High dose	↑ 2.7	↑	↓	↓	↓	-	-	↓	nr	↓	↓
outliers excluded	Low dose											
	High dose											
DE-71												
Final report from lab												
no outliers identified	Low dose	-	-	↑	↑	-	-	-	-	nr	↓	↓
	High dose	-	-	↑	↑	-	-	-	-	nr	↓	-
Final interlab comparison												
outliers included	Low dose	-	-	-	↑	-	-	-	-	nr	↓	↓
	High dose	-	-	-	-	-	-	-	-	nr	↓	↓
outliers excluded	Low dose			-	↑							
	High dose											
2-Chloronitrobenzene												
Final report from lab												
no outliers identified	Low dose	-	-	-	-	-	-	-	-	nr	-	-
	High dose	↑ 2.8	-	-	-	-	↓	-	↓	nr	↓	-
Final interlab comparison												
outliers included	Low dose	-	↑	-	-	-	-	↑	-	nr	-	-
	High dose	↑ 2.7	↑	-	-	-	↓	-	↓	nr	↓	-
outliers excluded	Low dose			-				↑				
	High dose				-							

SUMMARY OF RESULTS
OF THE PUBERTAL MALE
INTERLABORATORY VALIDATION STUDIES
BY CHEMICAL

Vinclozolin

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Lab 1

Final report from lab

no outliers	Low dose	− (+1%)	-	-	-	−	-	-	↓	-
identified	High dose	↓ (−6%)	-	-	-	↑	-	-	↓	-

Final interlab comparison

no outliers	Low dose	-	-	-	-	−	−	−	↓	−
identified	High dose	↓	↓	−	−	↑	−	−	↓	−

Lab 2

Final report from lab

no outliers	Low dose	− (-1%)	−	−	−	−	−	−	−	−
identified	High dose	− (- 0%)	−	↑	−	↑	−	−	↓	−

Final interlab comparison

no outliers	Low dose	−	−	−	−	−	−	−	↓	−
identified	High dose	−	−	↑	−	↑	−	−	↓	−

Lab 3

Final report from lab

no outliers	Low dose	− (-9%)	↓	-	-	-	-	-	↓	-
identified	High dose	− (-7%)	↓	-	-	-	-	-	↓	-

Final interlab comparison

outliers included	Low dose	↓	↓	-	↓	-	-	-	↓	-
	High dose	↓	↓	-	↓	-	-	-	↓	-
outliers excluded	Low dose	↓	↓							
	High dose	↓	↓							

Agreement across labs

Based on individual labs' analyses

Low dose	3 -	2 - 1↓	3 -	3 -	3 -	3 -	3 -	2↓ 1 -	3 -
High dose	2 - 1↓	2 - 1↓	2 - 1↑	3 -	2↑ 1 -	3 -	3 -	3↓	3 -

Uniform analysis, incl interlab variation

Low dose	2 - 1↓	2 - 1↓	3 -	2 - 1↓	3 -	3 -	3 -	3↓	3 -
High dose	2↓ 1 -	2↓ 1 -	2 - 1↑	2 - 1↓	2↑ 1 -	3 -	3 -	3↓	3 -

Vinclozolin

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone

Lab 1

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	↑ 3.3	↑	↑	-	–	-	-	–	-	–	-
identified	High dose	↑ 7.1	↑	↑	-	↓	-	-	↓	↓	↓	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	↑ 4.0	↑	–	–	–	-	-	–	nr	–	–
identified	High dose	↑ 7.6	↑	↑	–	↓	-	-	↓	nr	↓	↑

Lab 2

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	↑ 1.9	↑	–	–	↓	-	-	–	nr	–	–
identified	High dose	↑ 5.2	↑	–	–	↓	-	-	↓	nr	↓	–

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	↑ 1.8	↑	–	–	↓	–	-	↓	nr	–	–
identified	High dose	↑ 5.2	↑	–	–	↓	↓	-	↓	nr	↓	–

Lab 3

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	↑ 3.3	↑	↑	↑	↓	-	-	–	nr	↓	–
identified	High dose	↑ 6.4	↑	↑	↑	↓	-	-	↓	nr	↓	↑

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	↑ 3.3	–	-	↑	↓	-	↓	–	nr	↓	–
outliers included	High dose	↑ 6.8	↑	-	↑	↓	-	-	↓	nr	↓	↑
outliers excluded	Low dose											
outliers excluded	High dose											

Agreement across labs

Based on individual labs' analyses

	Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
Low dose	3 ↑	3 ↑	2 ↑ 1 -	2 - 1 ↑	2 ↓ 1 -	3 -	3 -	3 -		2 - 1 ↓	3 -
High dose	3 ↑	3 ↑	2 ↑ 1 -	2 - 1 ↑	3 ↓	3 -	3 -	3 ↓		3 ↓	2 - 1 ↑

Uniform analysis, incl interlab variation

	Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
Low dose	3 ↑	2 ↑ 1 -	3 -	2 - 1 ↑	2 ↓ 1 -	3 -	2 - 1 ↓	2 - 1 ↓		2 - 1 ↓	3 -
High dose	3 ↑	3 ↑	2 - 1 ↑	2 - 1 ↑	3 ↓	2 - 1 ↓	3 -	3 ↓		3 ↓	2 ↑ 1 -

Dibutyl phthalate

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Lab 1

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	↓ (− 4%)	−	−	−	−	−	−	↓	↓
identified	High dose	↓ (− 8%)	−	↑	−	−	−	−	↓	−

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	↓	↓	−	−	−	−	−	↓	↓
	High dose	↓	↓	↑	−	−	−	−	↓	−
outliers excluded	Low dose				−			−		
	High dose									

Lab 2

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	− (- 5%)	−	−	−	−	−	−	↓	−
identified	High dose	↓ (− 6%)	↓	↑	−	−	−	−	↓	↓

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	↓	−	−	−	−	−	−	↓	−
identified	High dose	↓	↓	↑	−	−	−	−	↓	↓

Lab 3

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	− (+1%)	−	↑	↑	−	−	−	↓	↓
identified	High dose	− (-2%)	−	↑	−	−	−	−	↓	↓

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	−	−	↑	−	−	−	−	↓	↓
	High dose	−	−	↑	−	−	−	−	↓	↓
outliers excluded	Low dose			↑						
	High dose									

Agreement across labs

Based on individual labs' analyses

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
	Low dose	2 - 1 ↓	3 -	2 - 1 ↑	2 - 1 ↑	3 -	3 -	3 -	3 ↓	2 ↓ 1 -
	High dose	2 ↓ 1 -	2 - 1 ↓	3 ↑	3 -	3 -	3 -	3 -	3 ↓	2 ↓ 1 -

Uniform analysis, incl interlab variation

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
	Low dose	2 ↓ 1 -	2 - 1 ↓	2 - 1 ↑	3 -	3 -	3 -	3 -	3 ↓	2 ↓ 1 -
	High dose	2 ↓ 1 -	2 ↓ 1 -	3 ↑	3 -	3 -	3 -	3 -	3 ↓	2 ↓ 1 -

Dibutyl phthalate

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone
Lab 1												
Final report from lab												
no outliers	Low dose	↑ 2.7	↑	↓	↓	↓	↓	–	↓	–	↓	–
identified	High dose	↑ 2.3	–	↓	↓	↓	–	–	↓	↓	↓	–
Final interlab comparison												
outliers included	Low dose	↑ 3.6	↑	↓	↓	↓	↓	–	↓	nr	↓	↓
	High dose	↑ 3.1	–	↓	↓	↓	–	–	↓	nr	↓	↓
outliers excluded	Low dose											
	High dose							–			↓	
Lab 2												
Final report from lab												
no outliers	Low dose	–	–	↓	↓	↓	–	–	↓	nr	↓	↓
identified	High dose	–	–	↓	↓	↓	–	↓	↓	nr	↓	↓
Final interlab comparison												
no outliers	Low dose	–	–	↓	↓	↓	↓	–	↓	nr	↓	↓
identified	High dose	–	–	↓	↓	↓	↓	↓	↓	nr	↓	↓
Lab 3												
Final report from lab												
no outliers	Low dose	–	–	↓	↓	↓	–	–	↓	nr	↓	–
identified	High dose	↑ 2.7	–	↓	↓	↓	–	–	↓	nr	↓	↓
Final interlab comparison												
outliers included	Low dose	–	–	↓	↓	↓	–	–	–	nr	↓	–
	High dose	↑ 2.7	↑	↓	↓	↓	–	–	↓	nr	↓	↓
outliers excluded	Low dose											
	High dose											
Agreement across labs												
Based on individual labs' analyses												
	Low dose	2 - 1 ↑	2 - 1 ↑	3 ↓	3 ↓	3 ↓	2 - 1 ↓	3 -	3 ↓		3 ↓	2 - 1 ↓
	High dose	2 ↑ 1 -	3 -	3 ↓	3 ↓	3 ↓	3 -	2 - 1 ↓	3 ↓		3 ↓	2 ↓ 1 -
Uniform analysis, incl interlab variation												
	Low dose	2 - 1 ↑	2 - 1 ↑	3 ↓	3 ↓	3 ↓	2 ↓ 1 -	3 -	2 ↓ 1 -		3 ↓	2 ↓ 1 -
	High dose	2 ↑ 1 -	2 - 1 ↑	3 ↓	3 ↓	3 ↓	2 - 1 ↓	2 - 1 ↓	3 ↓		3 ↓	3 ↓

DE-71 (males)

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Lab 1

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (- 3%)	–	↑	–	–	–	–	↓	–
identified	High dose	– (- 3%)	–	↑	–	–	–	–	↓	–

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	–	–	↑	–	–	–	–	↓	–
	High dose	–	–	↑	–	–	–	–	↓	–
outliers excluded	Low dose									
	High dose						–			

Lab 2

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (- 2%)	-	↑	-	-	-	-	↓	↑
identified	High dose	– (- 4%)	-	↑	-	-	-	-	↓	↑

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	-	-	↑	-	-	-	-	↓	↑
identified	High dose	-	-	↑	-	-	-	-	↓	↑

Lab 3

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	– (-8%)	↓	↑	↓	–	–	–	↓	↑
identified	High dose	– (-5%)	↓	↑	–	–	–	–	↓	↑

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	↓	↓	↑	↓	–	–	–	↓	–
	High dose	–	↓	↑	–	–	–	–	↓	↑
outliers excluded	Low dose	↓	↓							
	High dose	–	↓							

Agreement across labs

Based on individual labs' analyses

	Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
Low dose	3 -	2 - 1↓	3 ↑	2 - 1↓	3 -	3 -	3 -	3 ↓	2 ↑ 1 -
High dose	3 -	2 - 1↓	3 ↑	3 -	3 -	3 -	3 -	3 ↓	2 ↑ 1 -

Uniform analysis, incl interlab variation

	Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
Low dose	2 - 1↓	2 - 1↓	3 ↑	2 - 1↓	3 -	3 -	3 -	3 ↓	2 - 1↑
High dose	3 -	2 - 1↓	3 ↑	3 -	3 -	3 -	3 -	3 ↓	2 ↑ 1 -

DE-71 (males)

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone

Lab 1

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	–	–	↑	–	–	–	–	–	–	–	–
identified	High dose	↑ 2.2	–	–	–	–	–	–	–	–	–	–

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	–	–	–	–	–	–	–	–	nr	–	–
	High dose	↑ 3.0	↑	–	–	–	–	–	–	nr	–	–
outliers excluded	Low dose											
	High dose											

Lab 2

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	-	-	-	-	-	-	-	-	nr	-	-
identified	High dose	-	-	-	-	-	-	-	-	nr	-	-

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	-	-	-	-	-	-	-	-	nr	–	-
identified	High dose	-	-	-	-	-	-	-	-	nr	↓	-

Lab 3

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers	Low dose	–	–	↑	↑	–	–	–	–	nr	↓	↓
identified	High dose	–	–	↑	↑	–	–	–	–	nr	↓	–

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	–	–	–	↑	–	–	–	–	nr	↓	↓
	High dose	–	–	–	–	–	–	–	–	nr	↓	↓
outliers excluded	Low dose			–	↑							
	High dose											

Agreement across labs

Based on individual labs' analyses

	Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
Low dose	3 -	3 -	2 ↑ 1 -	2 - 1 ↑	3 -	3 -	3 -	3 -		2 - 1 ↓	2 - 1 ↓
High dose	2 - 1 ↑	3 -	2 - 1 ↑	2 - 1 ↑	3 -	3 -	3 -	3 -		2 - 1 ↓	3 -

Uniform analysis, incl interlab variation

	Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
Low dose	3 -	3 -	3 -	2 - 1 ↑	3 -	3 -	3 -	3 -		2 - 1 ↓	2 - 1 ↓
High dose	2 - 1 ↑	2 - 1 ↑	3 -	3 - (2 - 1 ↑)	3 -	3 -	3 -	3 -		2 ↓ 1 -	2 - 1 ↓

2-Chloronitrobenzene (males)

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH

Lab 1

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	− (- 2%)	−	↑	↑	−	−	−	↑	−
identified	High dose	↓ (− 6%)	−	↑	↑	−	−	−	↑	−

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	−	−	↑	↑	−	−	−	↑	−
	High dose	↓	↓	↑	↑	−	−	−	↑	−
outliers excluded	Low dose									
	High dose							−		

Lab 2

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	− (-1%)	−	↑	−	−	−	−	−	−
identified	High dose	− (- 5%)	−	↑	−	−	↓	−	−	−

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	−	−	↑	−	−	−	−	−	−
identified	High dose	↓	↓	↑	−	−	↓	↓	−	−

Lab 3

Final report from lab

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
no outliers	Low dose	− (+4%)	↑	↑	↑	**-**	−	−	↑	−
identified	High dose	− (-1%)	−	↑	↑	**-**	−	−	−	↓

Final interlab comparison

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
outliers included	Low dose	−	−	↑	↑	−	−	−	↑	−
	High dose	−	−	↑	↑	−	−	−	−	↓
outliers excluded	Low dose									
	High dose									

Agreement across labs

Based on individual labs' analyses

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
	Low dose	3 -	2 - 1 ↑	3 ↑	2 ↑ 1 -	3 -	3 -	3 -	2 ↑ 1 -	3 -
	High dose	2 - 1 ↓	3 -	3 ↑	2 ↑ 1 -	3 -	2 - 1 ↓	3 -	2 - 1 ↑	2 - 1 ↓

Uniform analysis, incl interlab variation

		Body weight	Body weight change	Liver	Kidneys, Paired	Adrenals, Paired	Pituitary	Thyroid, Blotted	T4	TSH
	Low dose	3 -	3 -	3 ↑	2 ↑ 1 -	3 -	3 -	3 -	2 ↑ 1 -	3 -
	High dose	2 ↓ 1 -	2 ↓ 1 -	3 ↑	2 ↑ 1 -	3 -	2 - 1 ↓	2 - 1 ↓	2 - 1 ↑	2 - 1 ↓

2-Chloronitrobenzene (males)

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	Seminal Vesicle Coag Gland Fluid	Seminal Vesicle Coag Gland Without Fluid	LABC Muscles	Testosterone

Lab 1

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	−	−	−	−	−	−	−	−	−	−	−
	High dose	↑ 2.0	−	−	↓	−	↓	−	−	−	↓	−

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	−	−	−	−	−	−	−	−	nr	−	−
	High dose	↑ 3.0	↑	−	↓	−	↓	−	−	nr	↓	↓
outliers excluded	Low dose											
	High dose											

Lab 2

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	−	−	−	−	−	−	−	−	nr	−	−
	High dose	↑ 2.0	−	−	−	−	↓	−	↓	nr	↓	−

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	−	−	−	−	−	−	−	−	nr	−	−
	High dose	↑ 2.0	−	−	−	−	↓	−	↓	nr	↓	↓

Lab 3

Final report from lab

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
no outliers identified	Low dose	−	−	−	−	−	−	−	−	nr	−	−
	High dose	↑ 2.8	−	−	−	−	↓	−	↓	nr	↓	−

Final interlab comparison

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
outliers included	Low dose	−	↑	−	−	−	−	↑	−	nr	−	−
	High dose	↑ 2.7	↑	−	−	−	↓	−	↓	nr	↓	−
outliers excluded	Low dose			−				↑				
	High dose				−							

Agreement across labs

Based on individual labs' analyses

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
	Low dose	3 -	3 -	3 -	3 -	3 -	3 -	3 -	3 -		3 -	3 -
	High dose	3 ↑	3 -	3 -	2 - 1 ↓	3 -	3 ↓	3 -	2 ↓ 1 -		3 ↓	3 -

Uniform analysis, incl interlab variation

		Age at PPS	Body weight at PPS	Testis, Left	Testis, Right	Epididymides, Paired	Ventral Prostate	Dorsolateral Prostate	SV Coag Gland Fluid	SV Coag Gland Without Fluid	LABC Muscles	Testosterone
	Low dose	3 -	2 - 1 ↑	3 -	3 -	3 -	3 -	2 - 1 ↑	3 -		3 -	3 -
	High dose	3 ↑	2 ↑ 1 -	3 -	2 - 1 ↓	3 -	3 ↓	3 - (2 - 1 ↑)	2 ↓ 1 -		3 ↓	2 ↓ 1 -

1. Blue cells highlight "apparent", not statistical, dose-response relationships (viz., low-dose value between control value and high-dose value). Thus in some cases a cell is shaded even if the low dose response was not significantly different from control.

2. Pink cells highlight results obtained when outliers were excluded. Note that the only differences in results when outliers were excluded were in pituitary weights (methoxychlor/Lab 3/high dose and 2-chloronitrobenzene/Lab 3/low dose).

3. Green cells highlight endpoint/dose level combinations where all three laboratories had the same result. Dark green indicates that all labs saw a change from controls; light green indicates that all labs detected no difference from controls.

4. Some labs excluded data points from analysis but all such exclusions (with the possible exception of Lab 1/methoxychlor/ovary) were for errors in extraction or weighing, not for extremity of value. These were not treated as "outliers" in this table. Other labs claimed no "outliers" because transformation of the data allowed such data to be used. For purpose of this table, all results from the individual labs (but not the interlaboratory statistical comparison of all three labs) were considered to have no outliers.

5. Percent changes in terminal body weight for Lab 1 were calculated at EPA.