

Figure 1

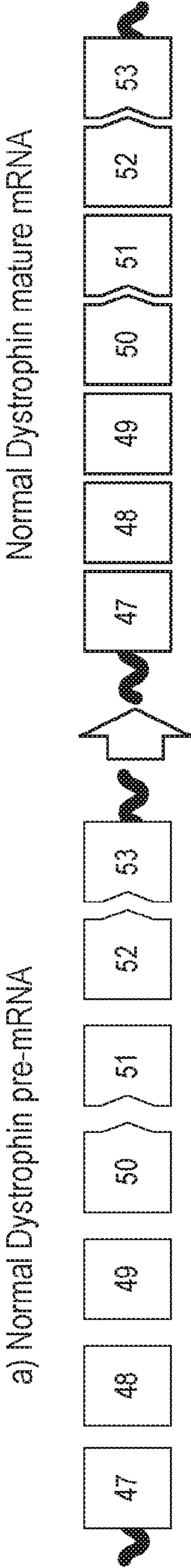


Figure 2

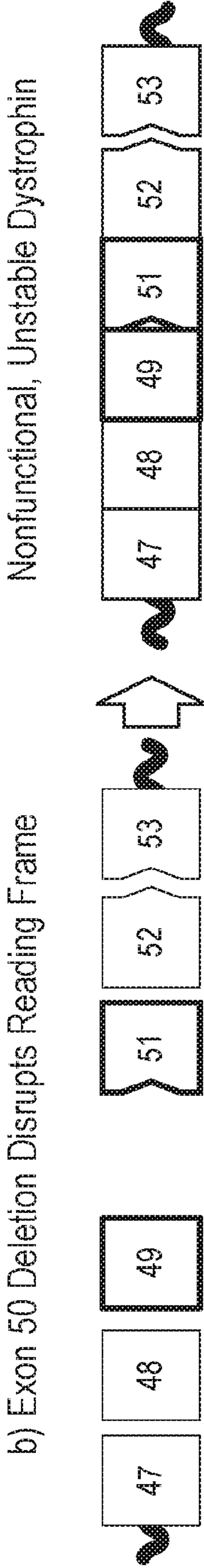
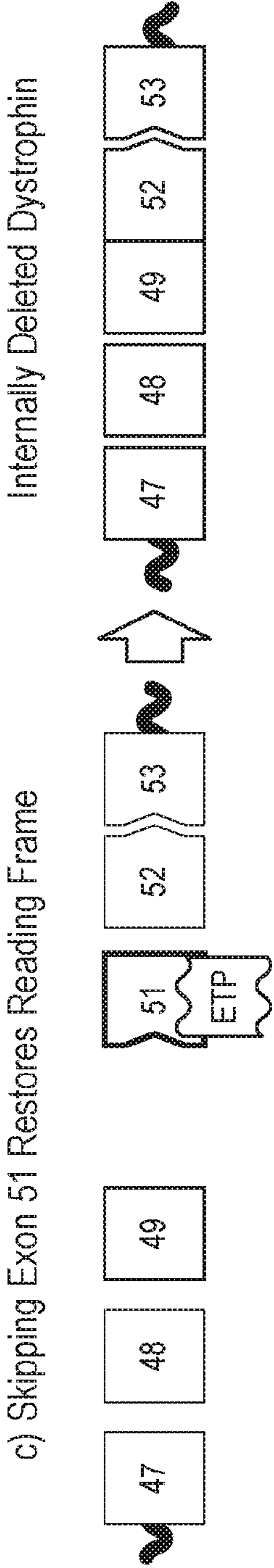


Figure 3



Source: Adapted from Kole 2012.

Figure 4

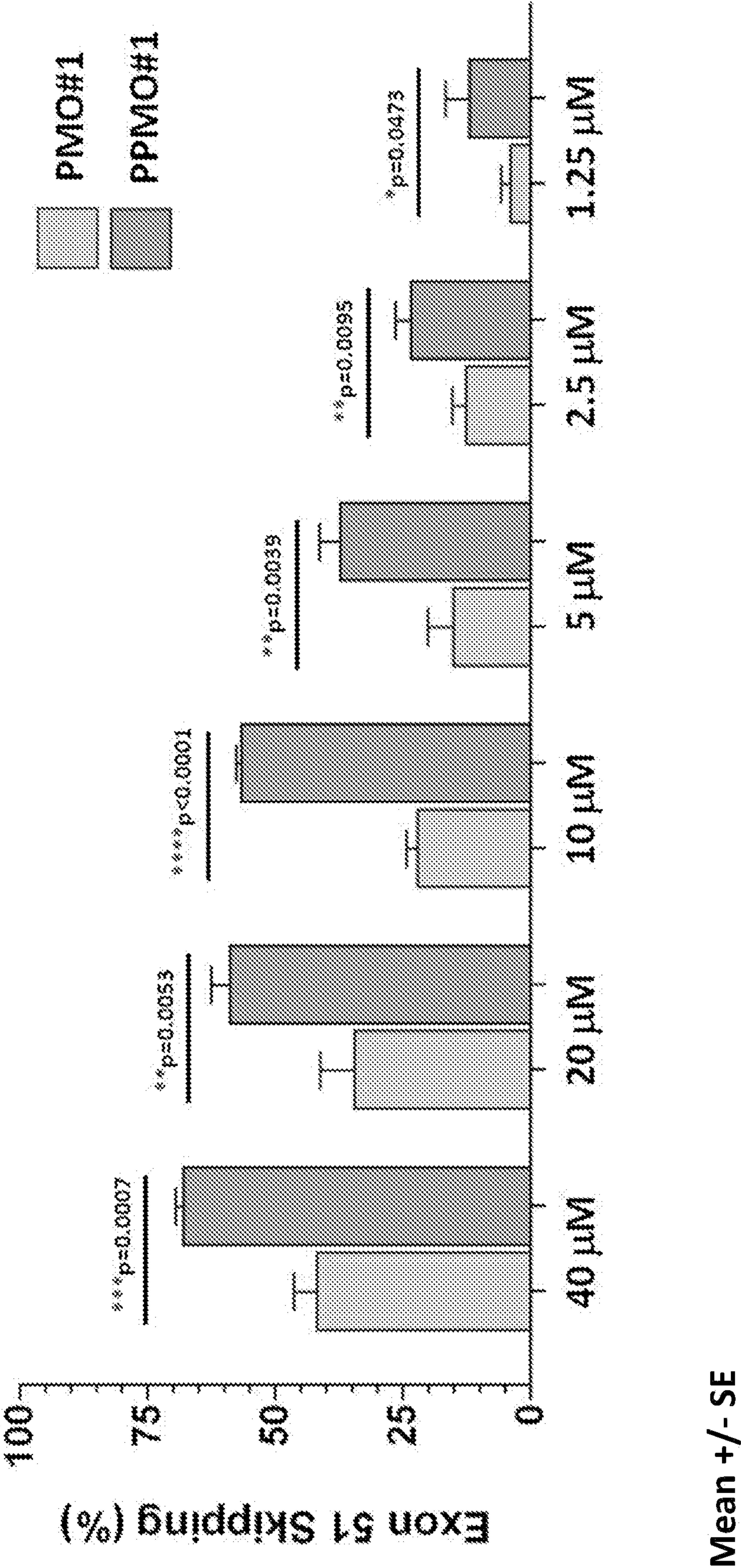


Figure 5A
7 Days
30 Days

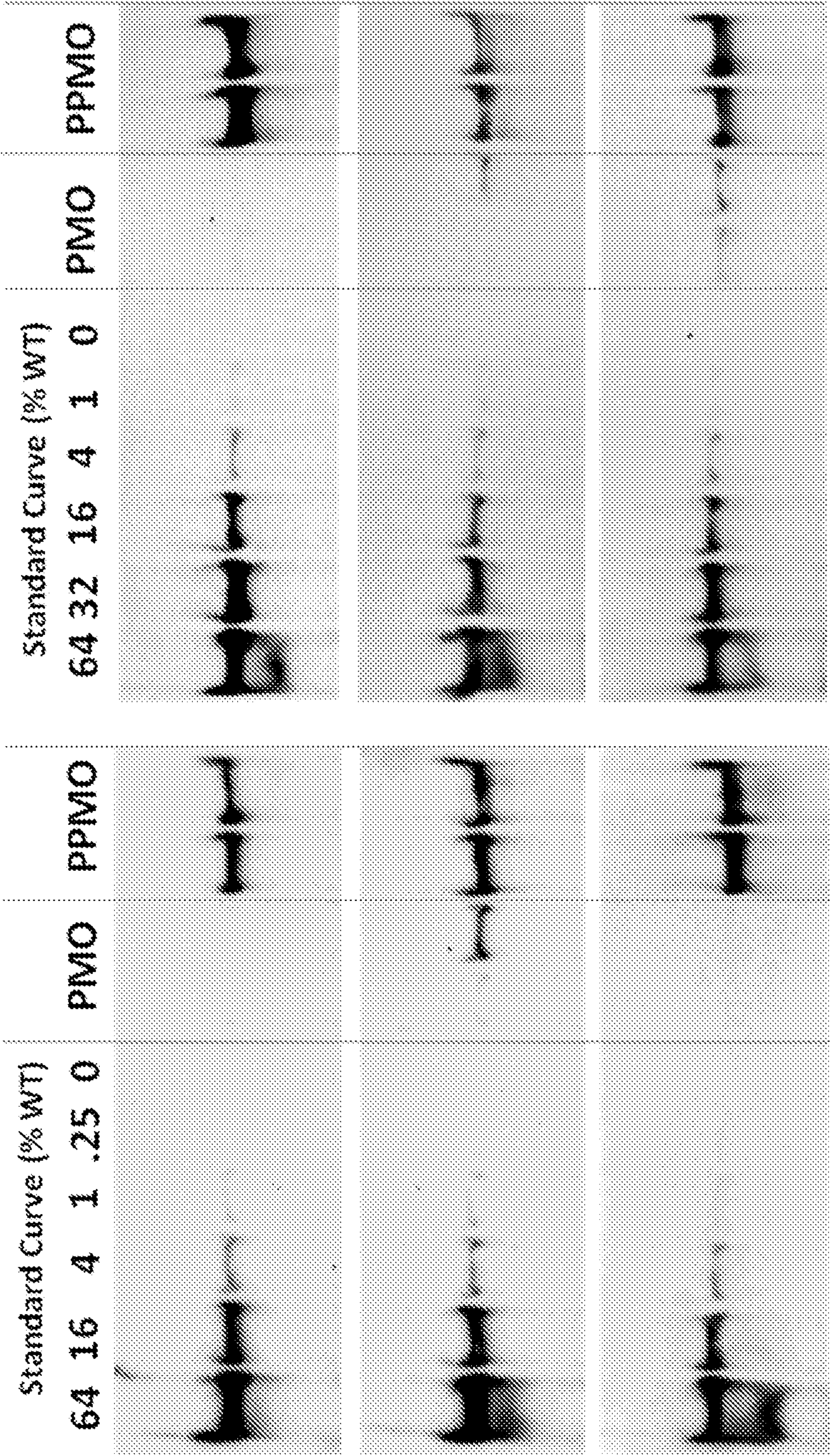


Figure 5C

60 Days

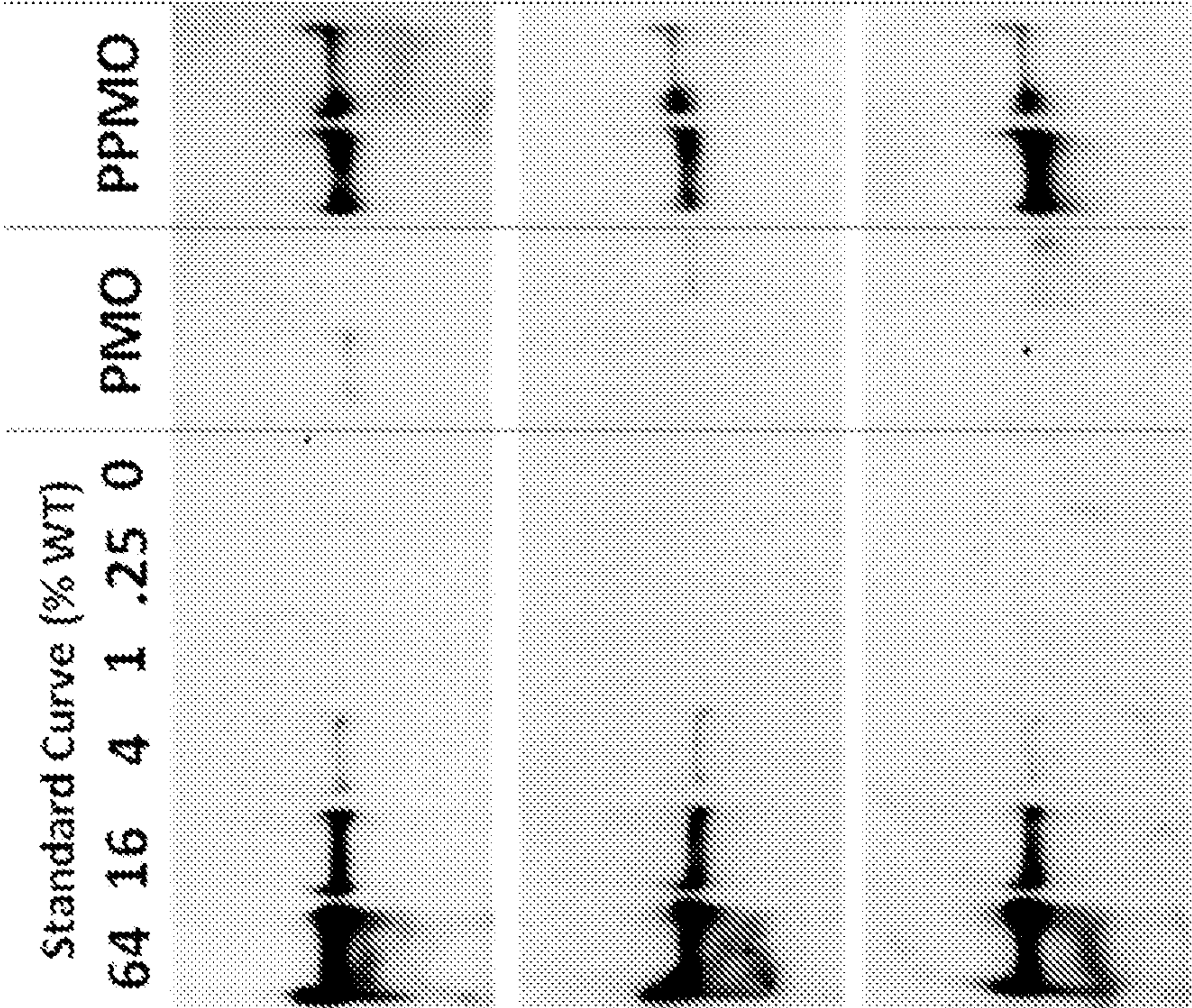


Figure 5D

90 Days

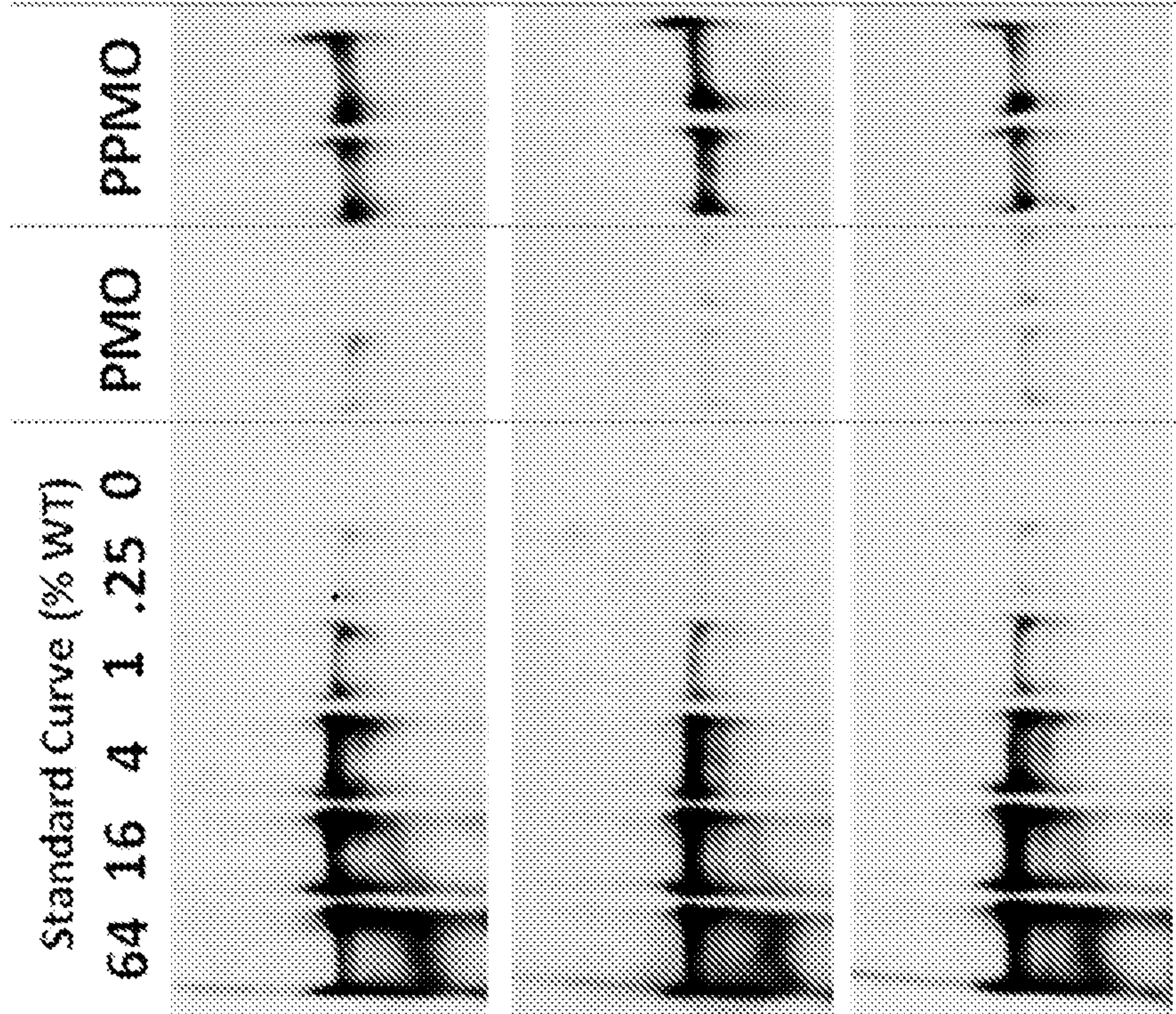


Figure 6B

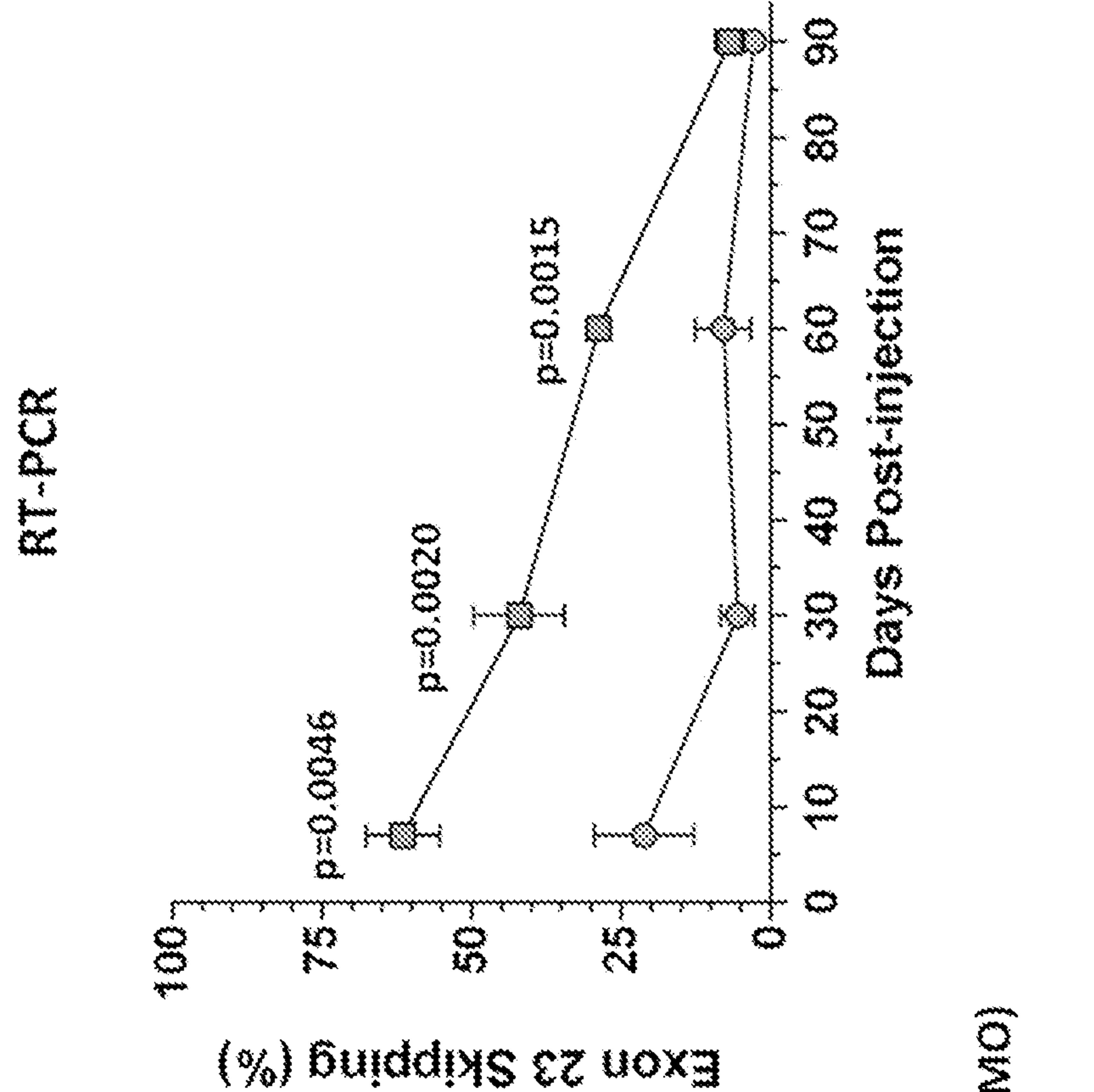


Figure 6A

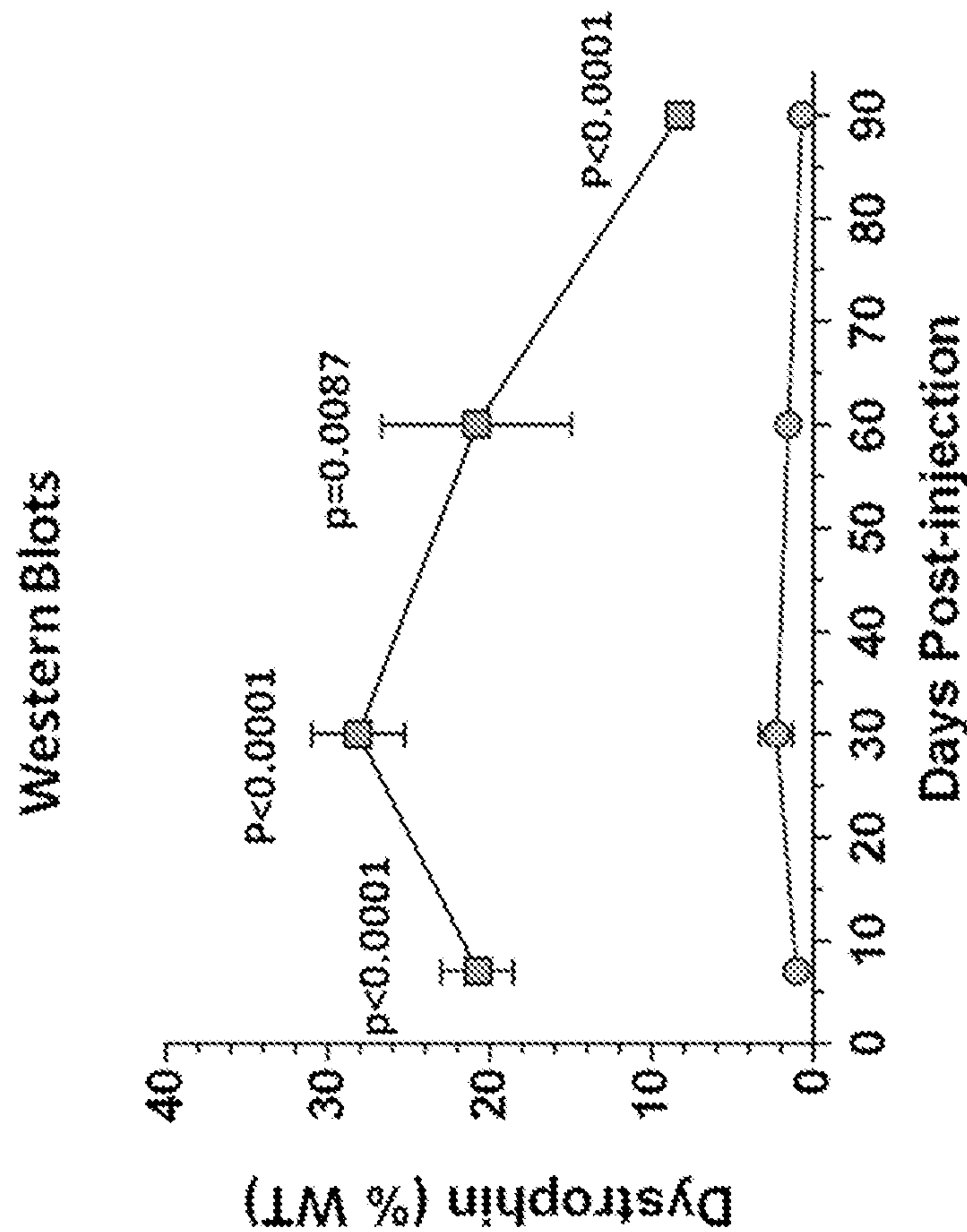


Figure 7A

7 Days

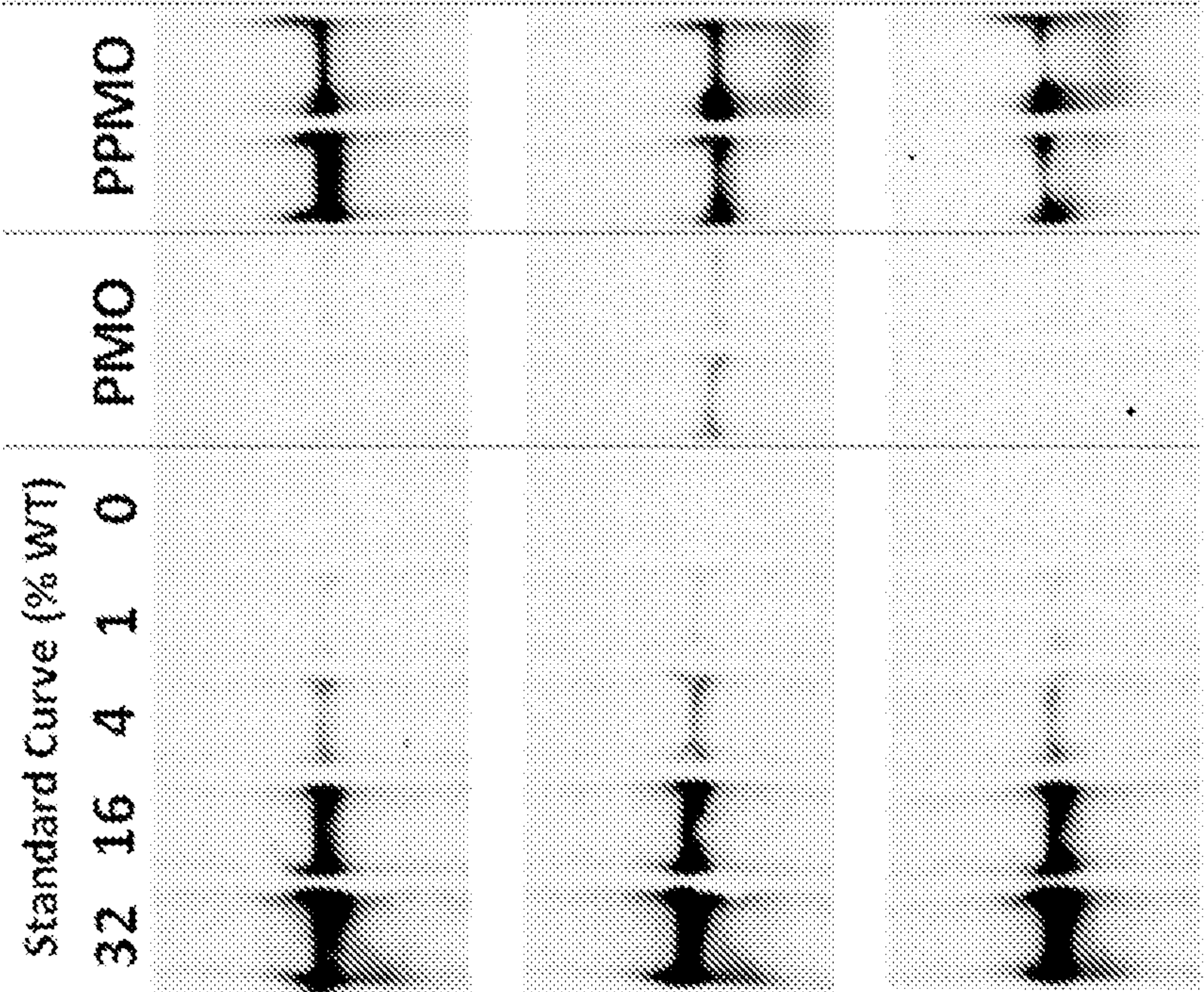


Figure 7B

30 Days

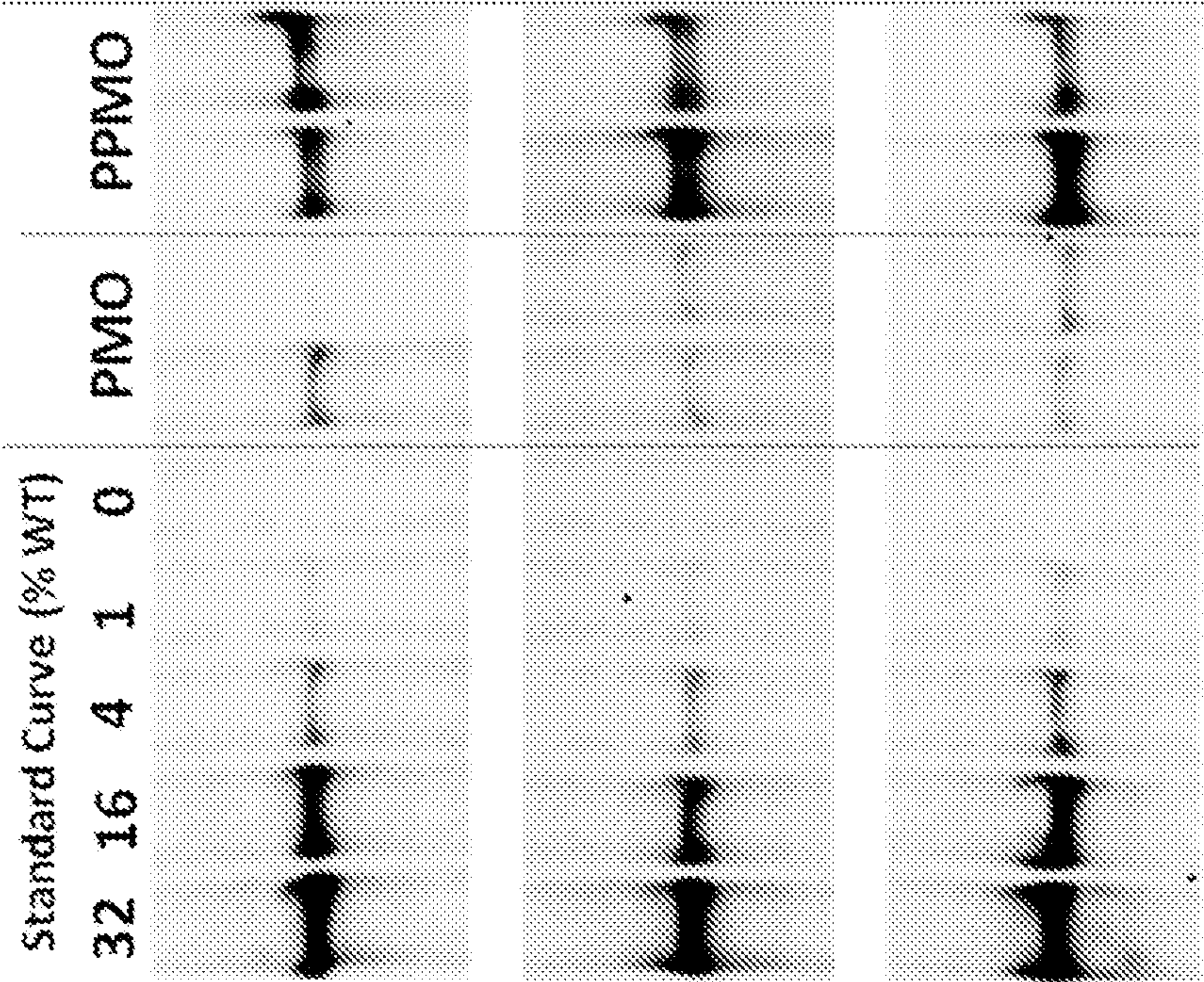


Figure 7D

90 Days

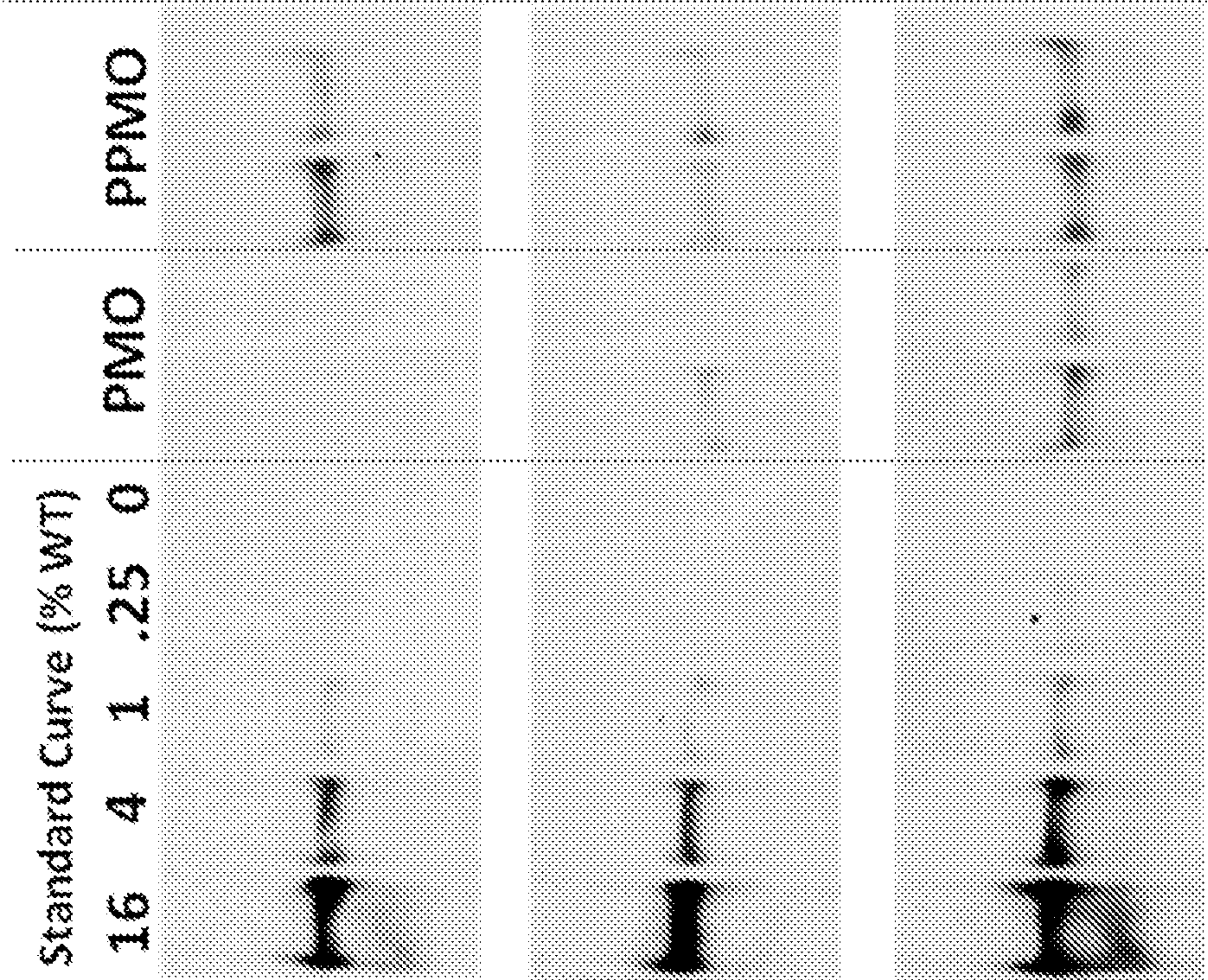


Figure 7C

60 Days

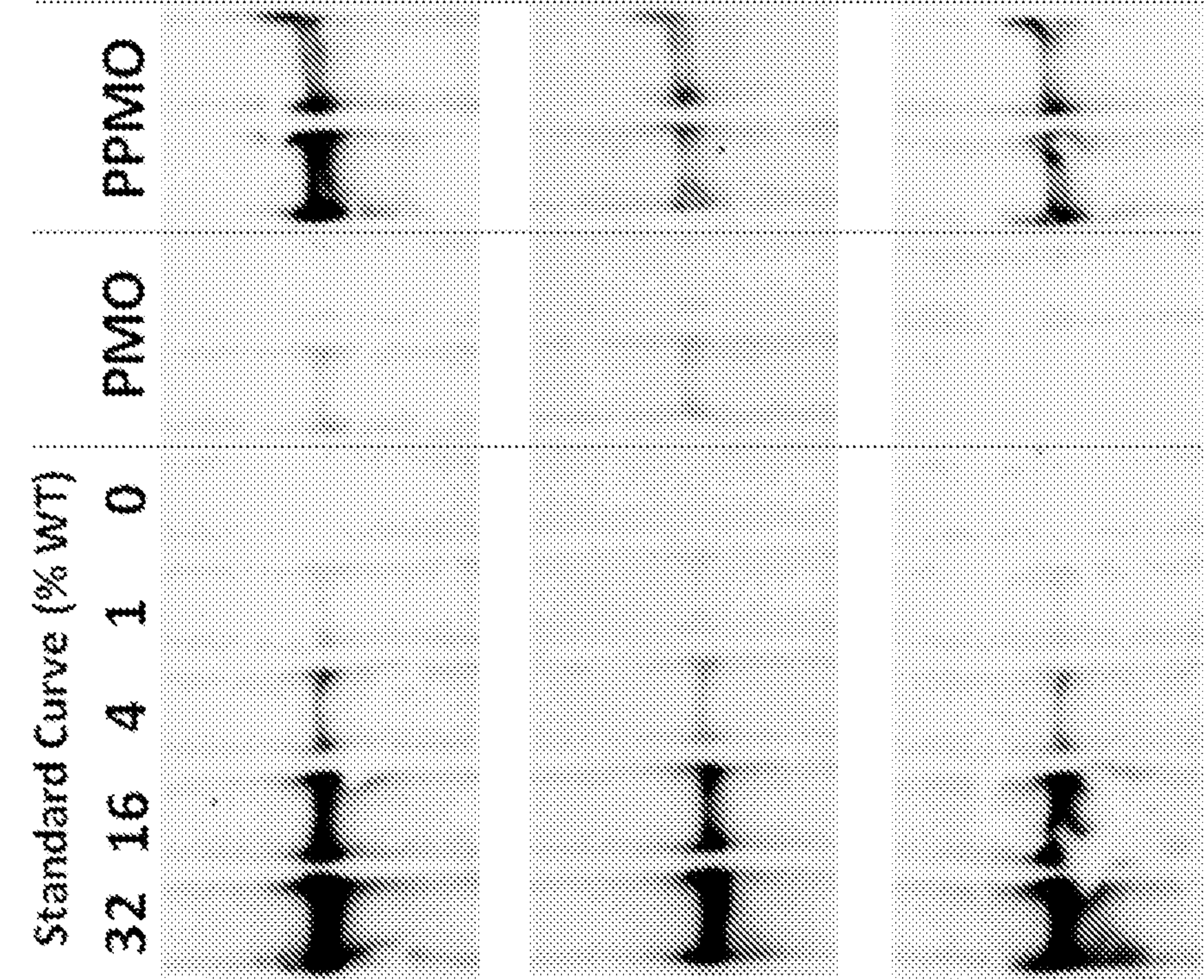


Figure 8A

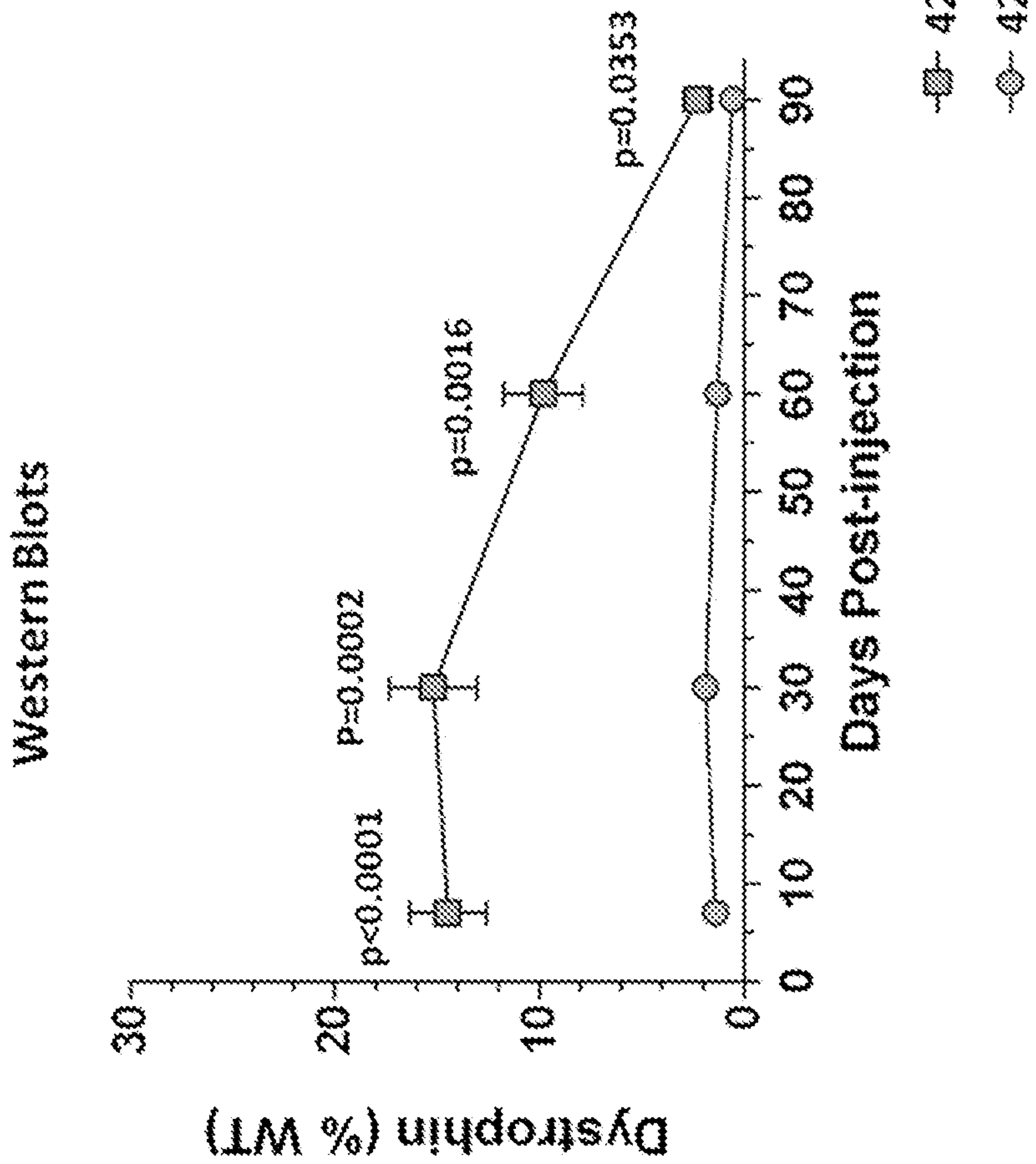


Figure 8B

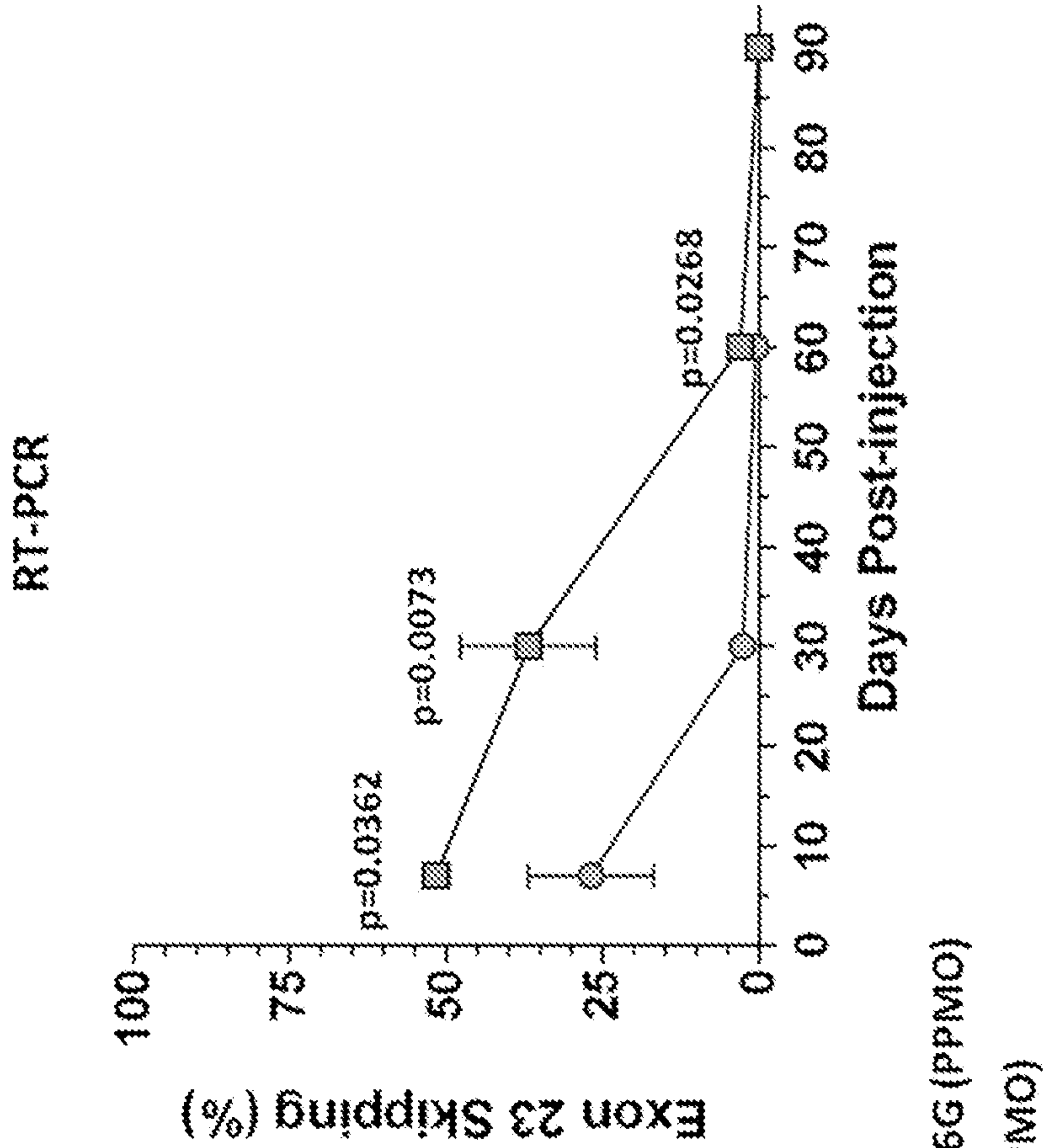


Figure 9A

7 Days

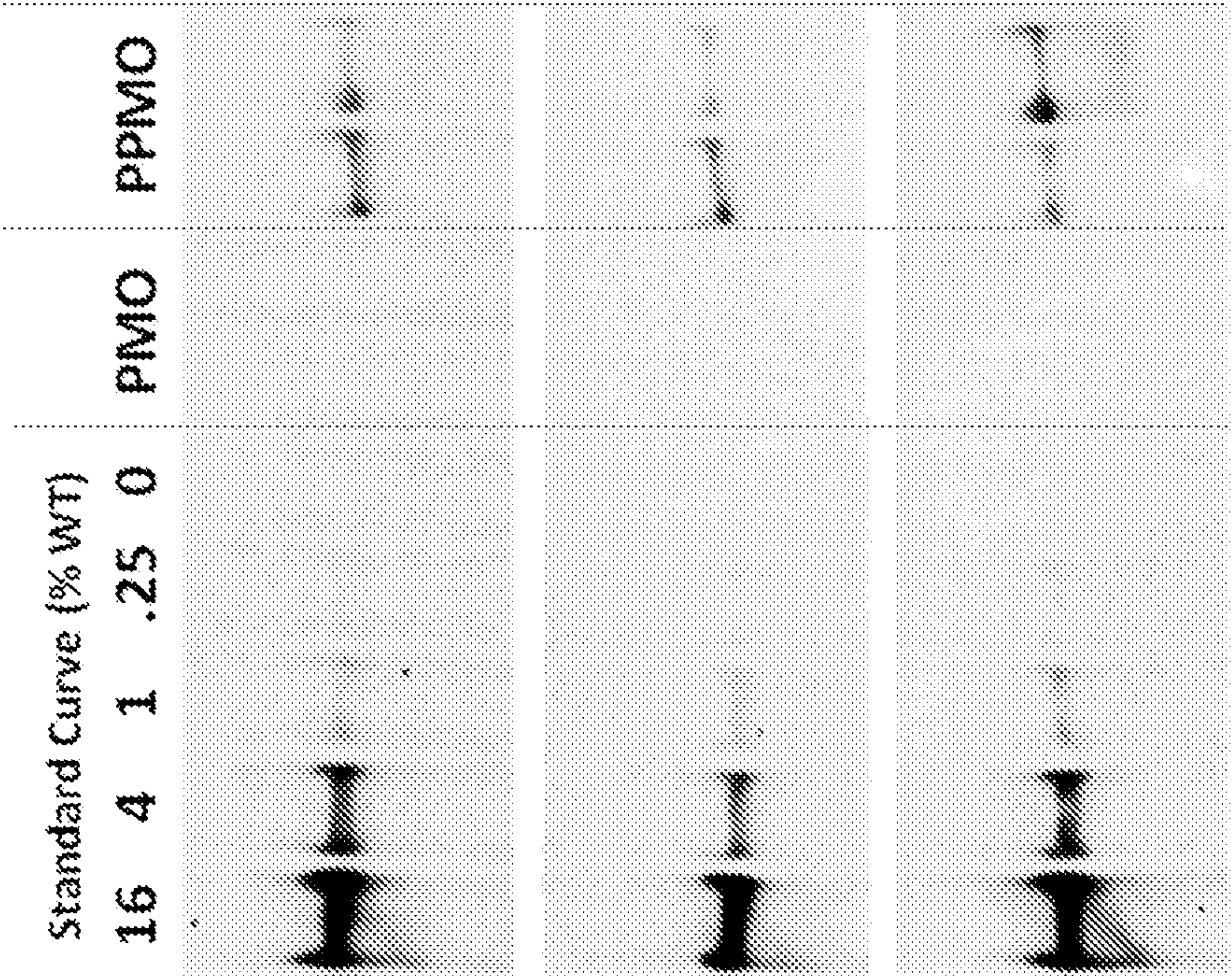


Figure 9B

30 Days

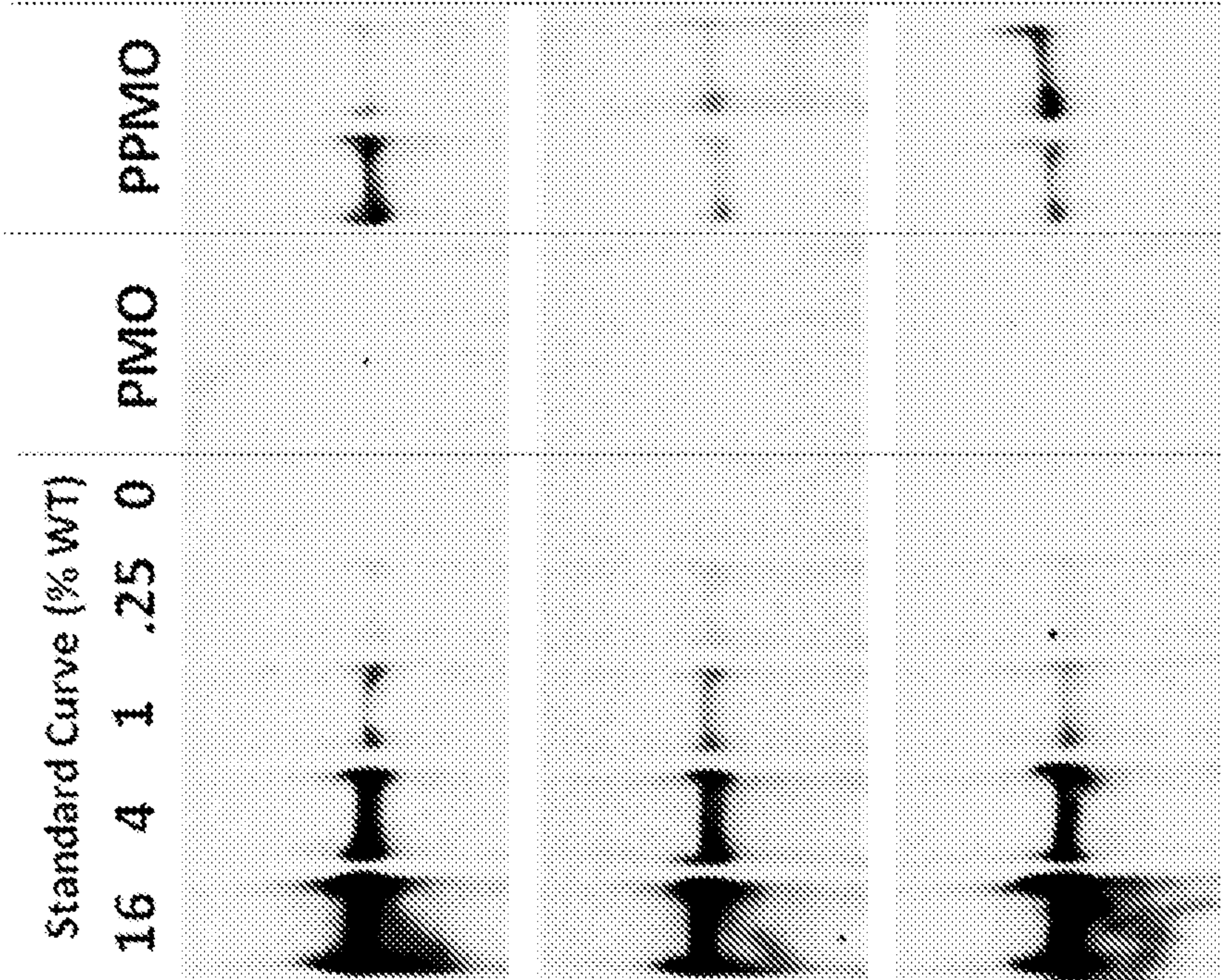


Figure 9C

60 Days

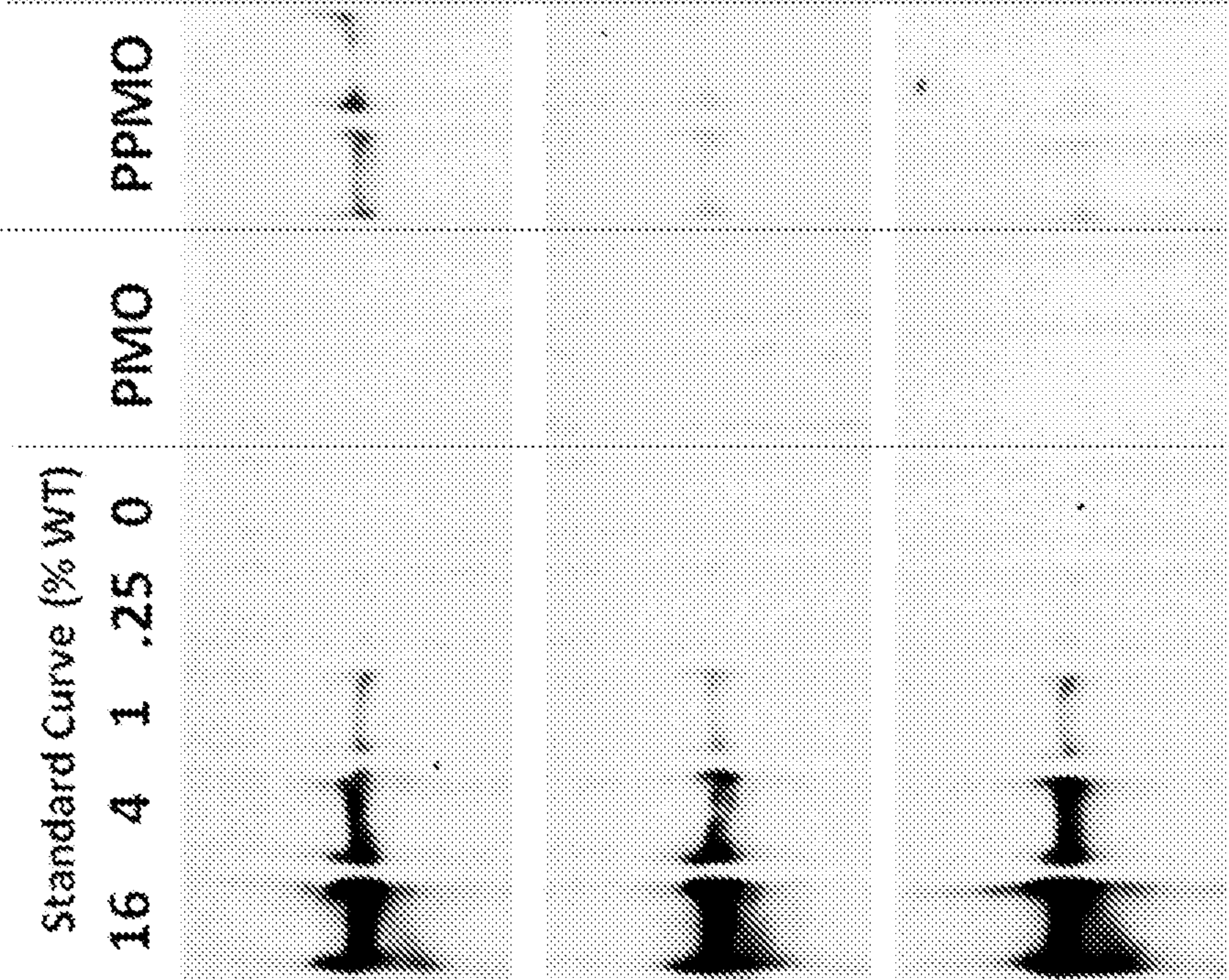


Figure 9D

90 Days

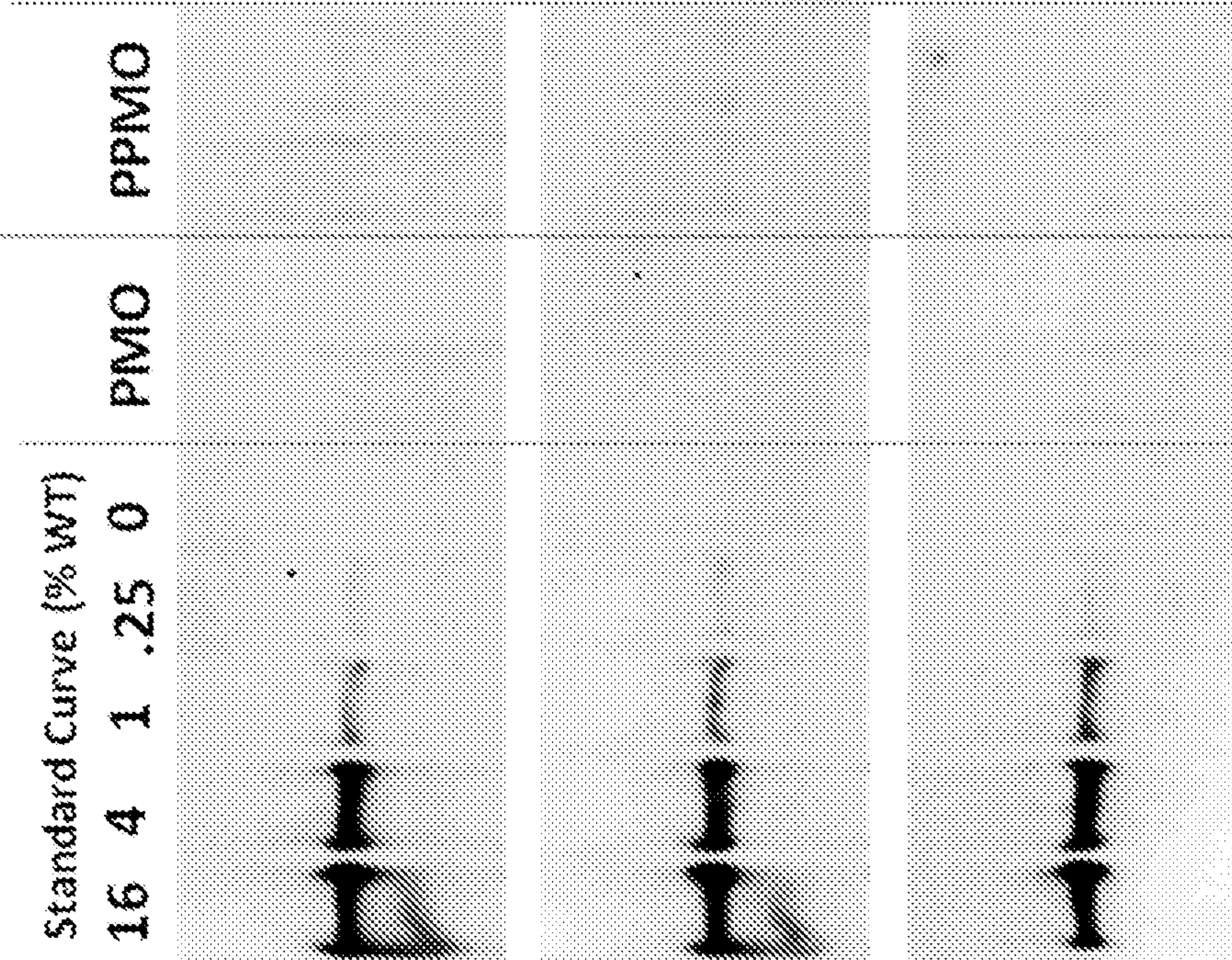


Figure 10A

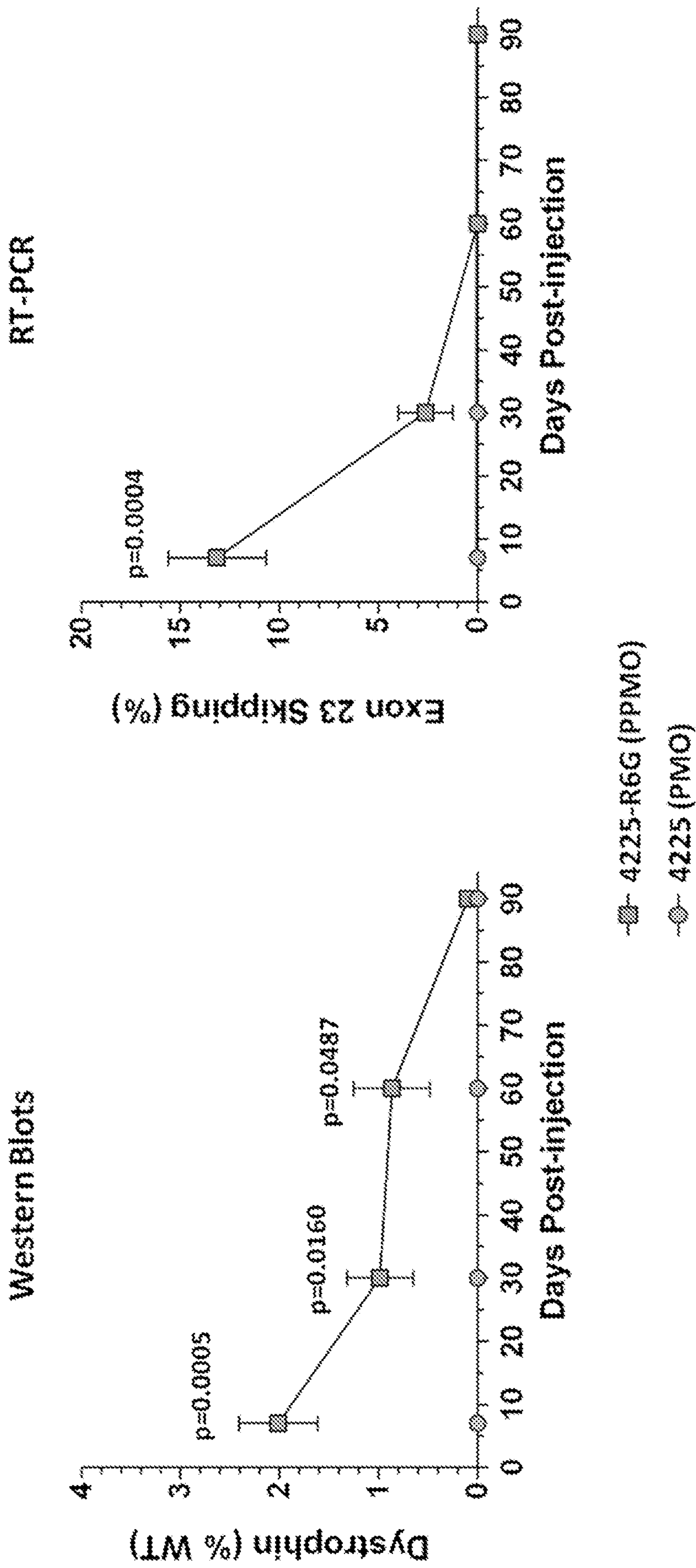


Figure 10B

Figure 11

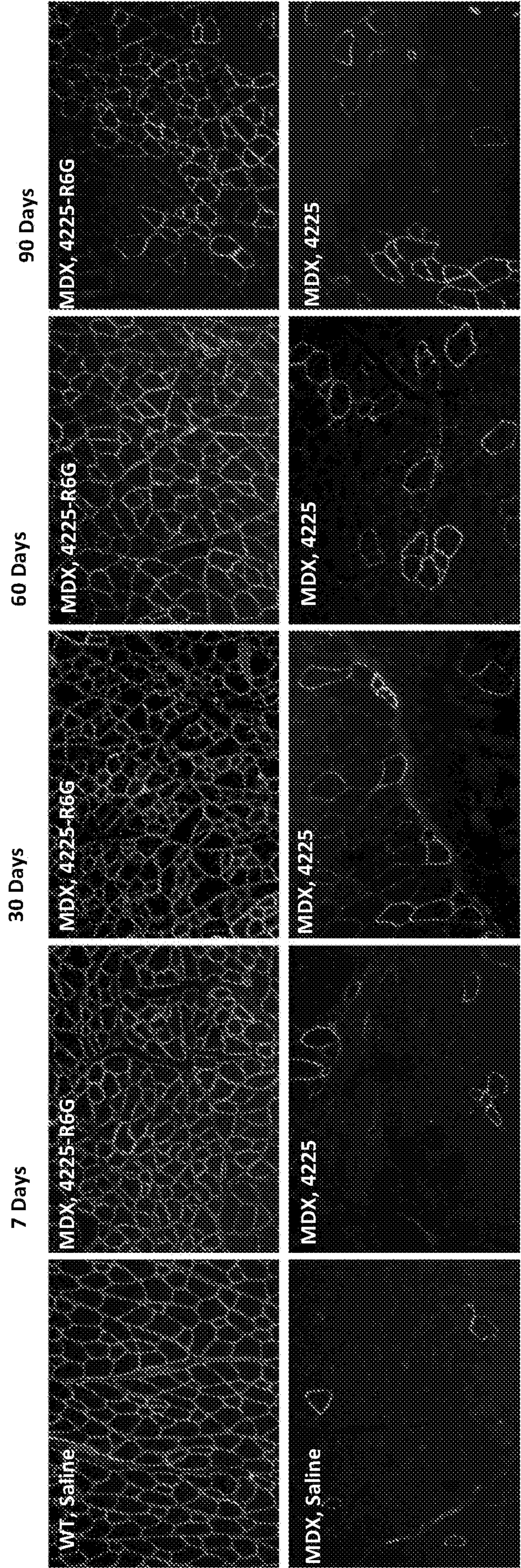


Figure 12

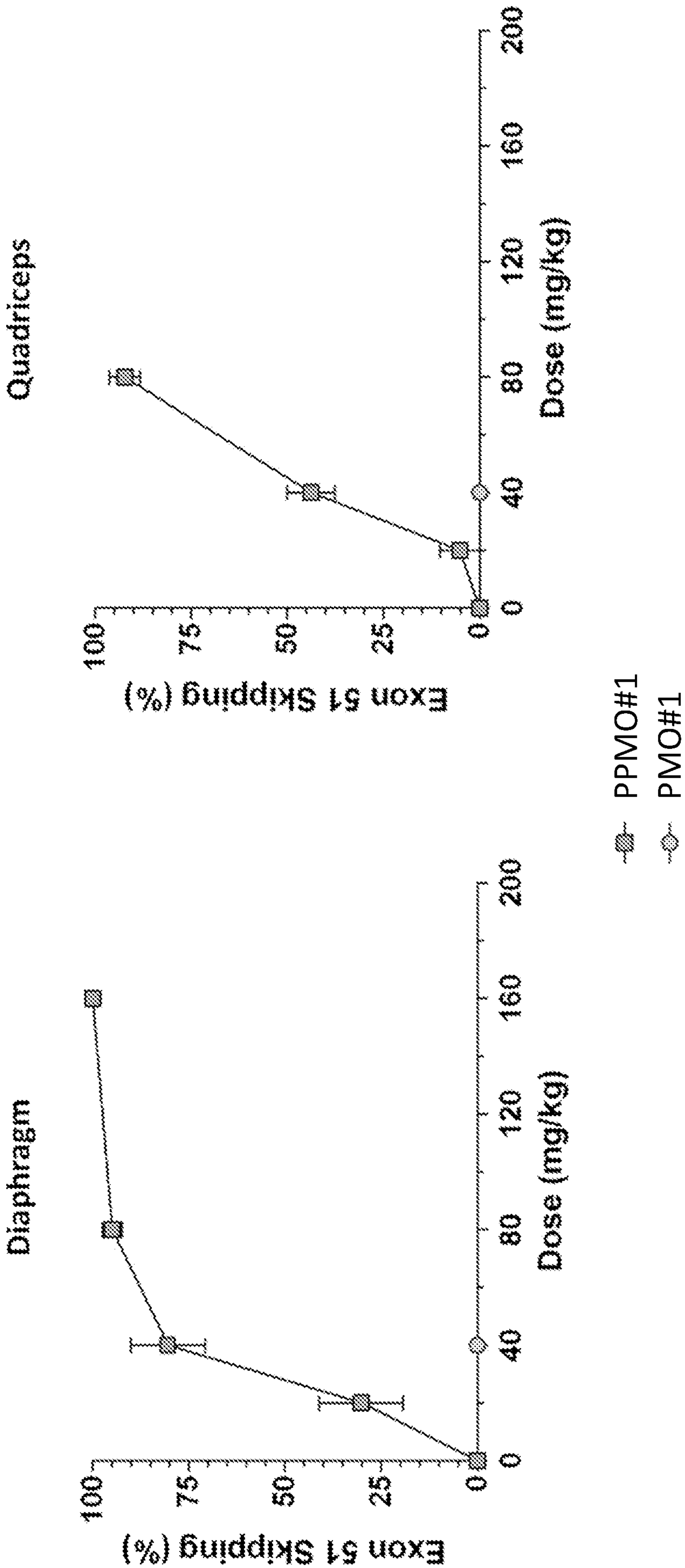


Figure 13

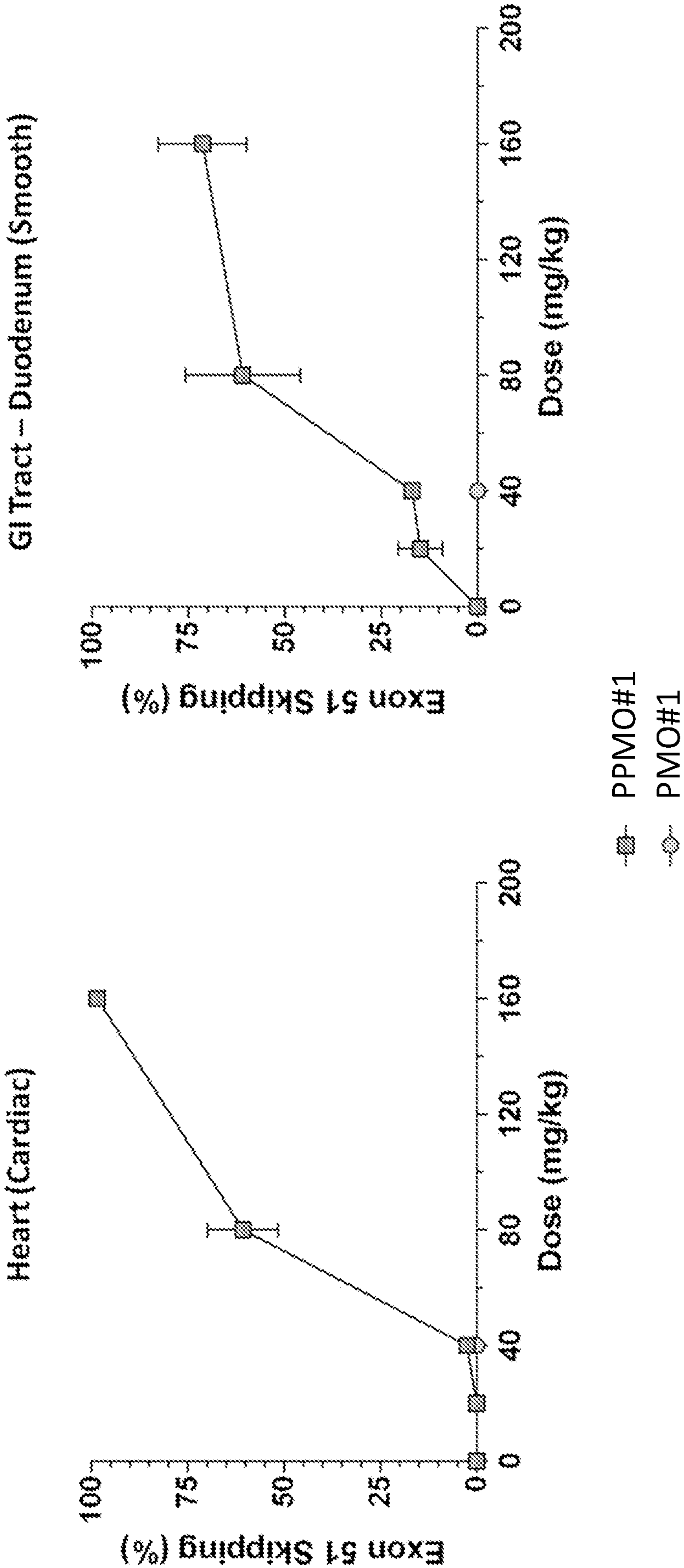


Figure 14

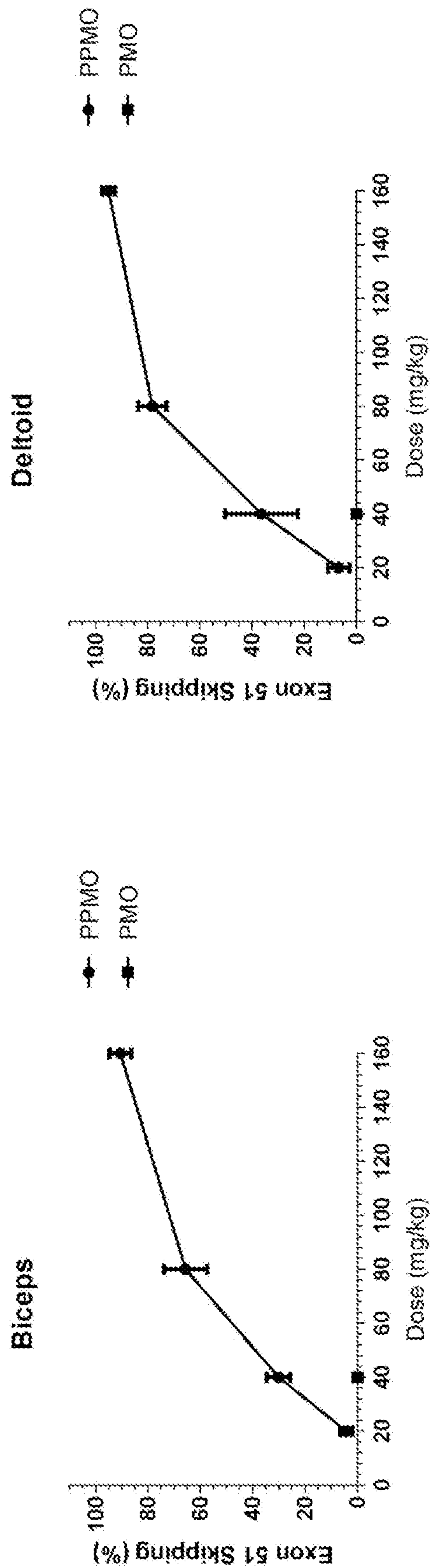


Figure 15

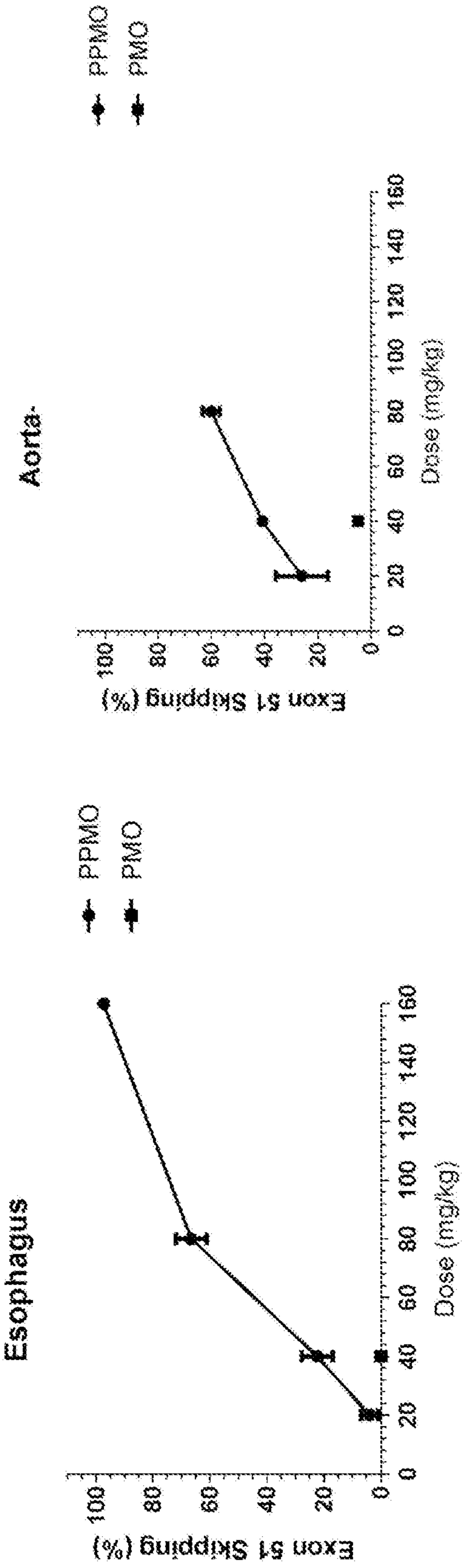


Figure 16A

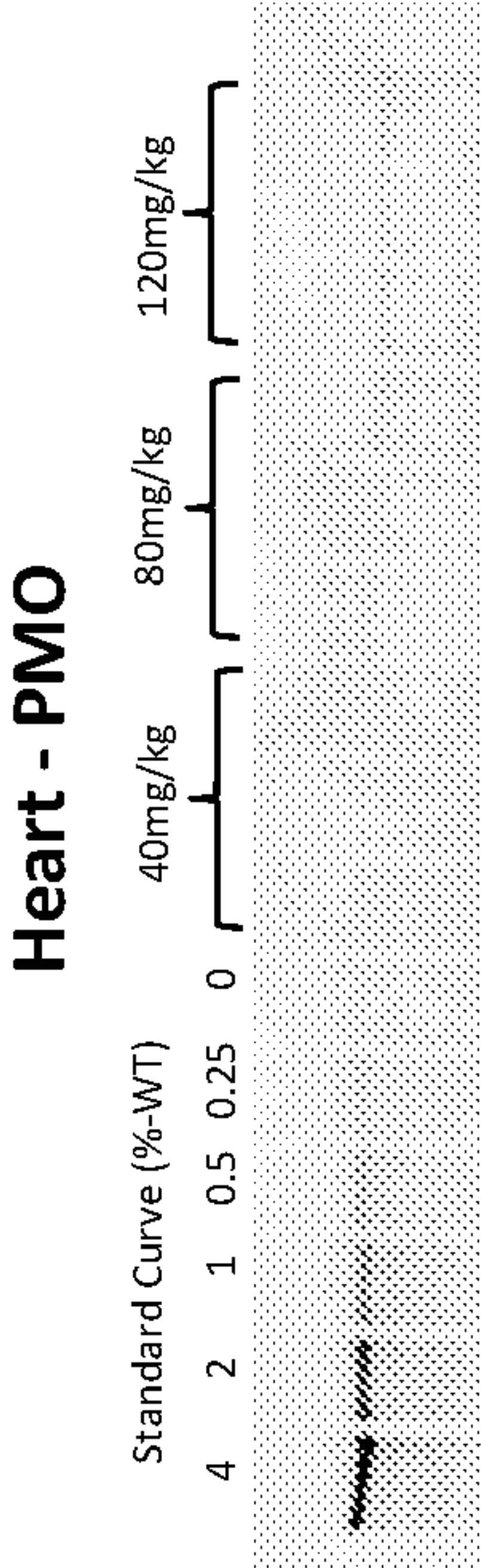


Figure 16B

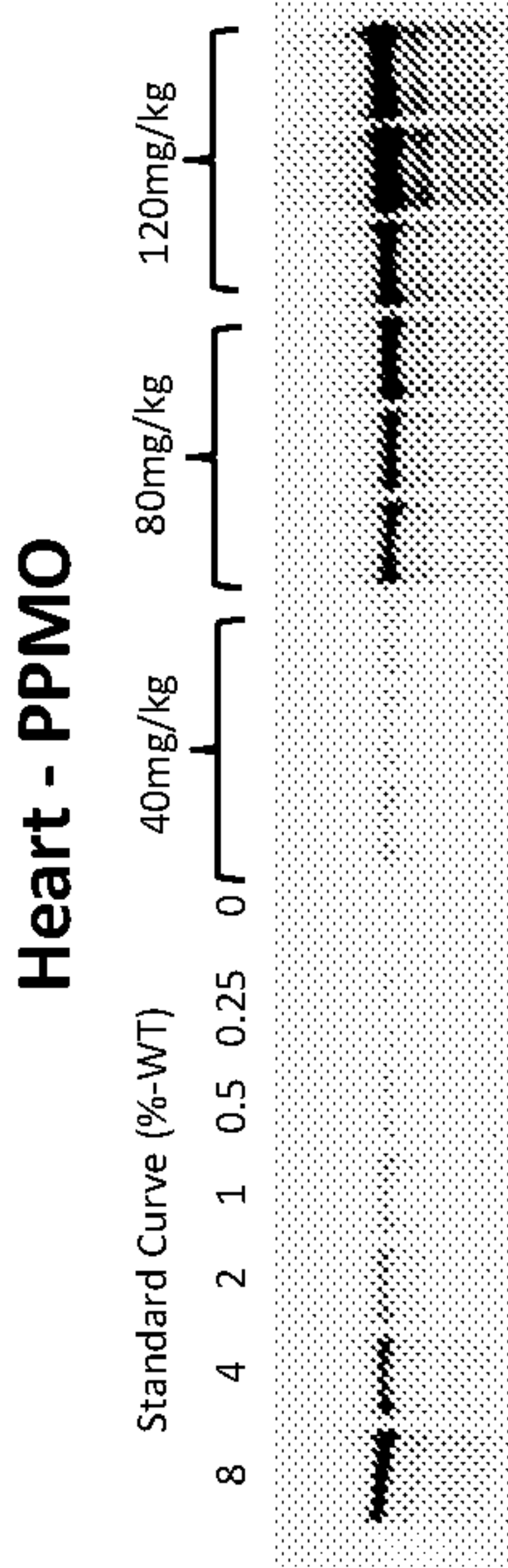


Figure 17

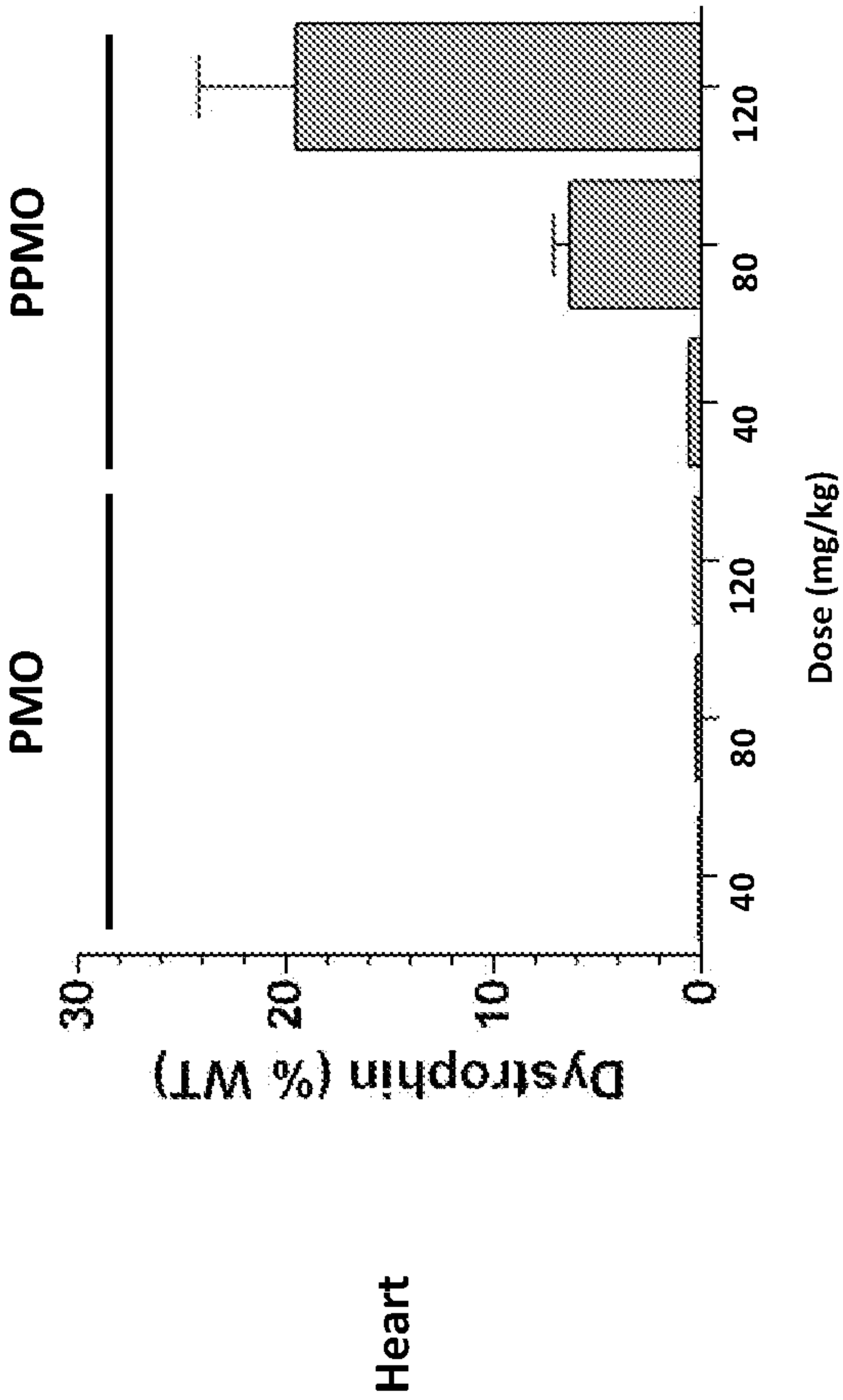


Figure 18A

Diaphragm - PMO

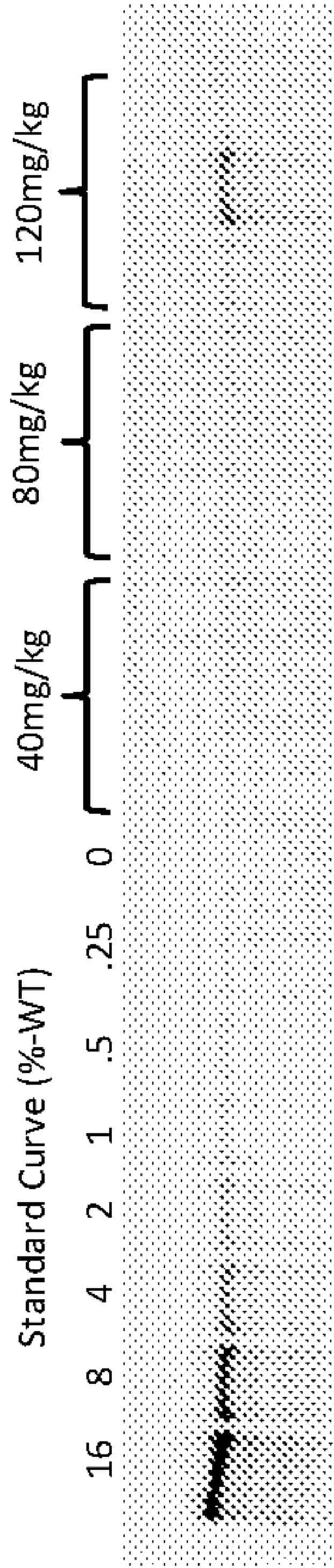


Figure 18B

Diaphragm - PPMO



Figure 19

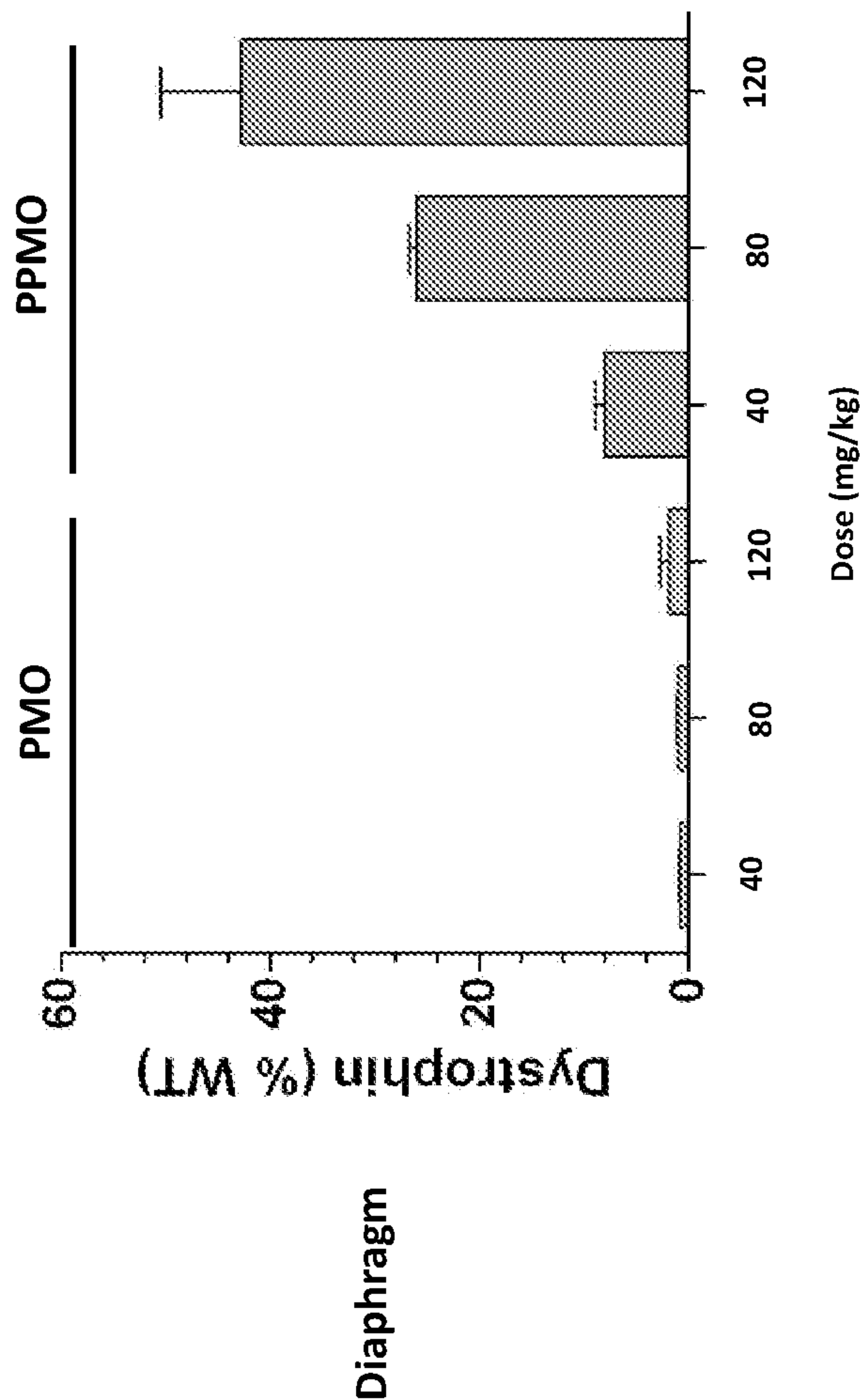


Figure 20B

Quadriceps - PMO

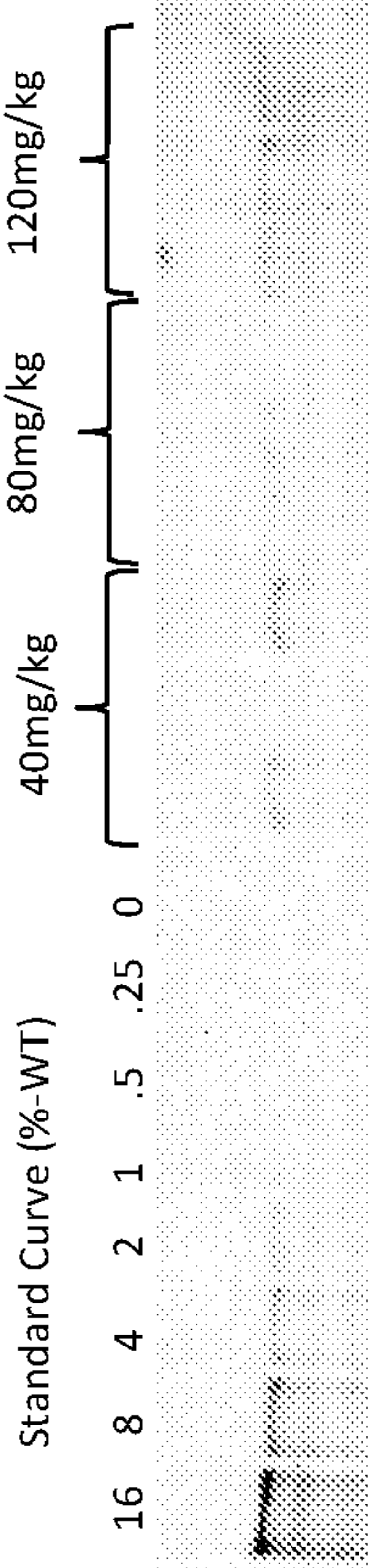


Figure 20A

Quadriceps - PPMO

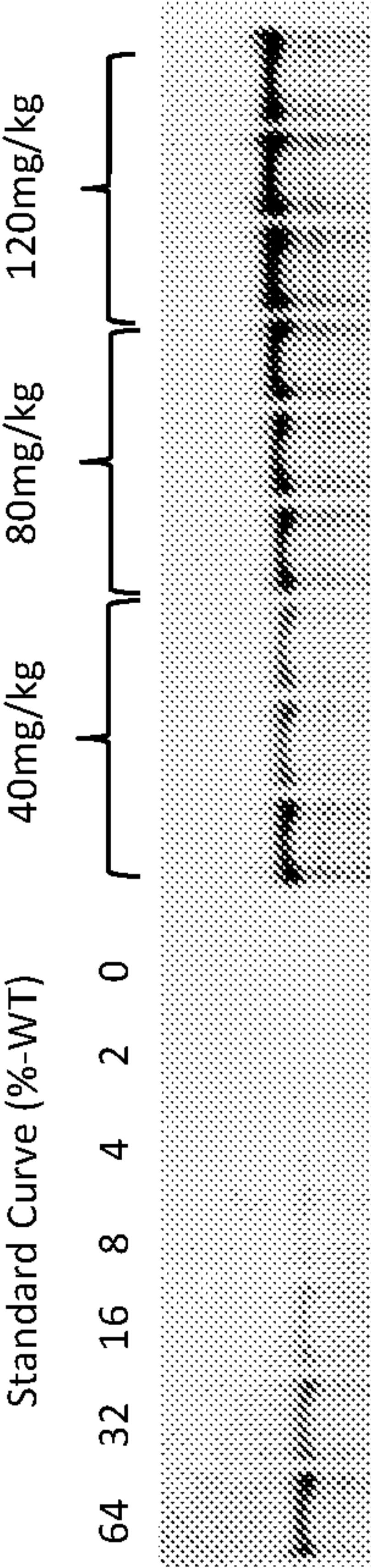


Figure 21

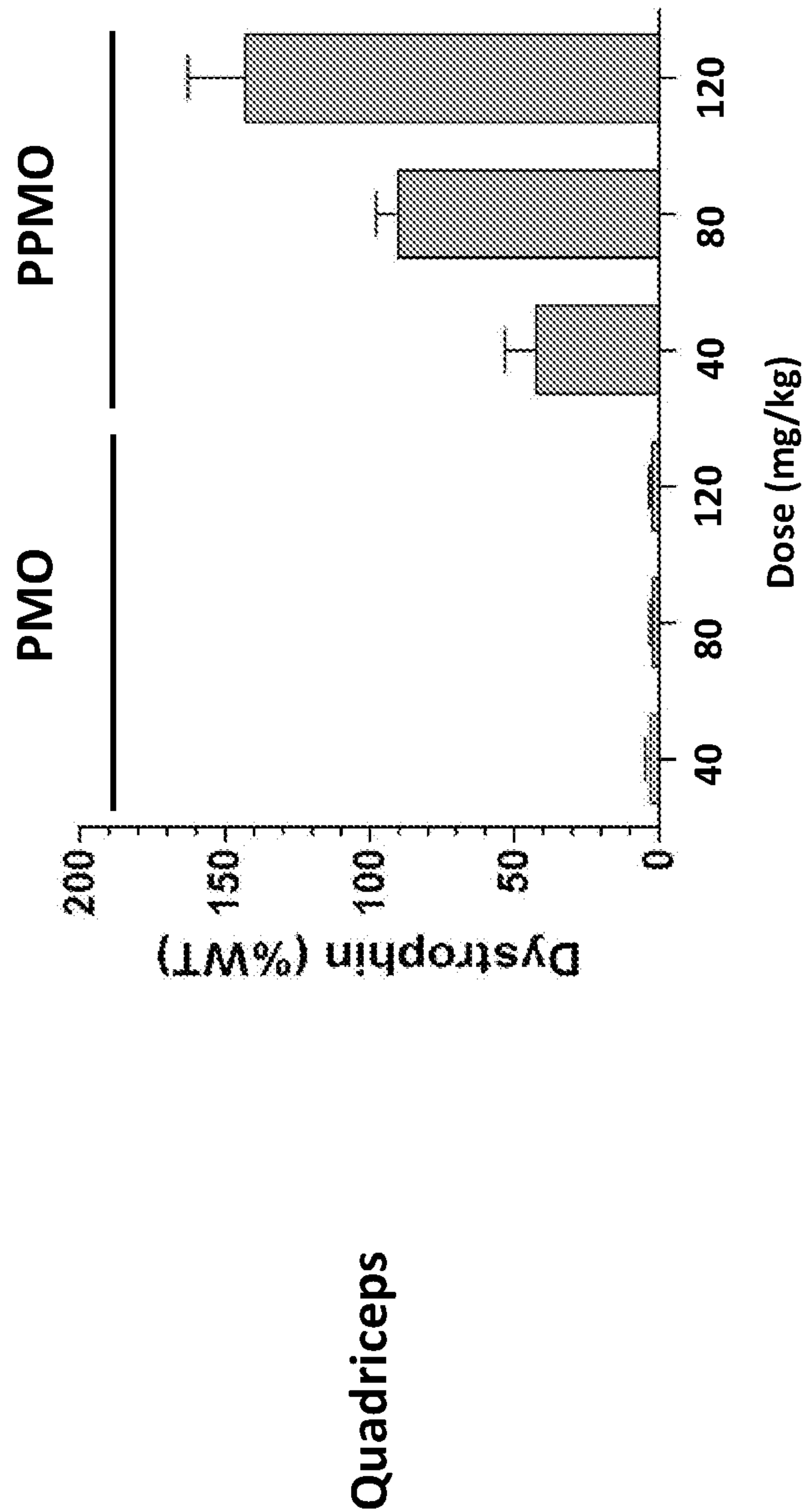
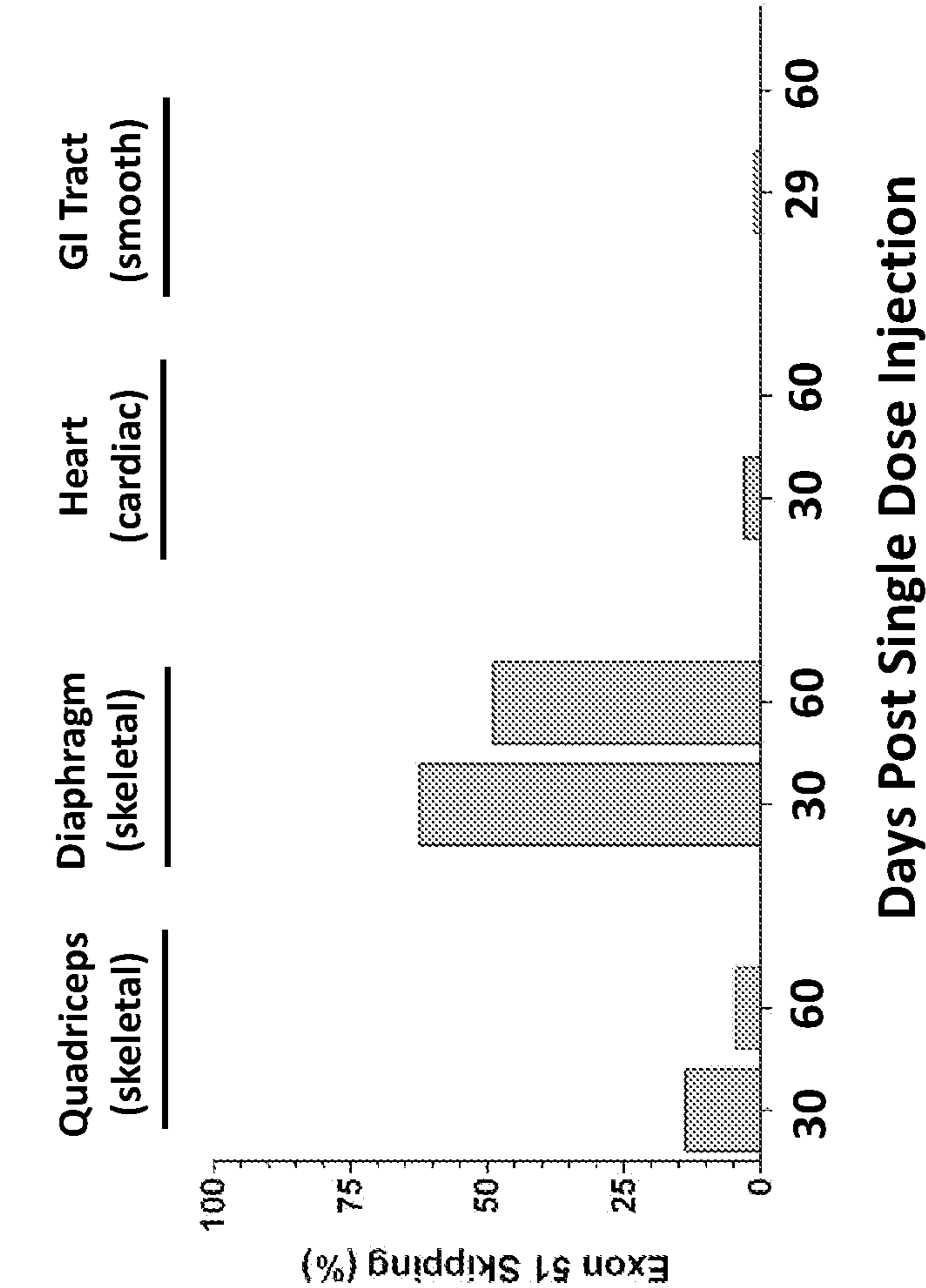


Figure 22



Cycle No.: Subunit (SU)	Pre-coupling Treatment				Coupling Cycle		Post-Coupling Treatment	
	1	2	3	4			1	2
	30% TFE/DCM Wash	CYTFA Solution ¹	Neutralization Solution	DCM Wash	Quantity SU (g) NEM (L) DMI (L)	RT Coupling Time (Hrs.)	DCM Wash	30% TFE/DCM Wash
1:C	5.5L	a) 5,5L b) 5.5L, 122ml	3x5.5L	5.5L	536.7g; 195 ml NEM; 3.2L DMI	5	5.5L	2x5.5L
2:T	7.0L	a) 7L b) 7L, 158ml	3x7L	2x7L	468.2g and 195ml NEM 3.2L DMI	4.25	7L	2x7L ²
3:C	8L	a) 8L b) 8L, 182ml	3x8L	2x8L	536.7g; 195ml NEM; 3.4L DMI	4.25	8L	2x8L
4:C	9L	a) 9L b) 9L, 206ml	3x9L	2x9L	536.7g; 195ml NEM; 3.6L DMI	4.25	9L	2x9L ³
5:A	9.5L	a) 9.5L b) 9.5L, 220ml	3x9.5L	2x9.5L	555.2g; 195ml NEM; 3.4L DMI	4.25	9.5L	2x9.5L
6:A	10L	a) 10L b) 10L, 232ml	3x10L	2x10 L	555.2g; 195ml NEM; 3.45L DMI	4.25	10L	2x10L ⁴
7:C	11L	a) 11L b) 11L, 256ml	3x11L	2x11L	536.7g; 195ml NEM;	4.25	11L	2x11L

Figure 23

¹ ml indicates the amount of 1:1 NEM/DCM² Resin held at this step for ½ day³ Resin held at this step for ½ day⁴ Resin held at this stage for 0.4 days

Cycle No.: Subunit (SU)	Pre-coupling Treatment				Coupling Cycle		Post-Coupling Treatment	
	1	2	3	4			1	2
	30% TFE/DCM Wash	CYTFA Solution ¹	Neutralization Solution	DCM Wash	Quantity SU (g) NEM (L) DMI (L)	RT Coupling Time (Hrs.)	DCM Wash	30% TFE/DCM Wash
					3.57L DMI			
8:A	11L	a) 11L b) 11L, 256ml	3x11L	2x11L	555.2g; 195ml NEM; 3.64L DMI	4.25	11L	2x11L ⁵
9:T	11.5L	a) 11.5L b) 11.5L 268ml	3x11.5L	2x 11.5L	468.2g; 195ml NEM; 3.72L DMI	4.25	11.5L	2x11.5L
10:C	12L	a) 12L b) 12L, 280ml	3x12L	2x12L	536.7g; 195ml NEM; 3.96L DMI	4.25	12L	2x12L ⁶
11:A	13.5L	a) 13.5L b) 13.5L, 204ml	3x13.5L	2x 13.5L	721.7g; 253ml NEM; 4.02L DMI	4.25	13.5L	2x13.5L
12:A	13.5L	a) 13.5L b) 13.5L, 204ml	3x13.5L	2x 13.5L	721.7g; 253ml NEM; 4.02L DMI	4.25	13.5L	2x13.5L ⁷
13:DPG	14L	a) 14L b) 14L, 216ml	3x14L	2x14L	941.9g; 253ml NEM; 4.02L DMI	4.25	14L	2x14L
14:DPG	14.5L	a) 14.5L b) 14.5L, 228ml	3x14.5L	2x 14.5L	941.9g; 253ml NEM;	4.25	14.5L	2x14.5L ⁸

Figure 23 (continued)

⁵ Resin held at this stage for 2.5 days⁶ Resin held at this stage for ½ day⁷ Resin held at this stage for 0.4 days⁸ Resin held at this stage for 0.4 days

Cycle No.: Subunit (SU)	Pre-coupling Treatment				Coupling Cycle		Post-Coupling Treatment	
	1	2	3	4			1	2
	30% TFE/DCM Wash	CYTFA Solution ¹	Neutralization Solution	DCM Wash	Quantity SU (g) NEM (L) DMI (L)	RT Coupling Time (Hrs.)	DCM Wash	30% TFE/DCM Wash
					4.1L DMI			
15:A	15.5L	a) 15.5L b) 15.5L, 254ml	3x15.5L	2x 15.5L	721.7g; 253ml NEM; 4.26L DMI	4.25	15.5L	2x15.5L
16:A	15.5L	a) 15.5L b) 15.5L, 254ml	3x15.5L	2x 15.5L	721.7g; 253ml NEM; 4.26L DMI	4.25	15.5L	2x15.5L ⁹
17:DPG	16L	a) 16L b) 16L, 366ml	3x16L	2x16L	941.9g; 253ml NEM; 4.4L DMI	4.75	16L	2x16L
18:A	16.5L	a) 16.5L b) 16.5L, 378ml	3x16.5L	2x 16.5L	721.7g; 253ml NEM; 4.4L DMI	4.25	16.5L	2x16.5L ¹⁰
19:T	16.5L	a) 16.5L b) 16.5L, 378ml	3x16.5L	2x 16.5L	608.7g; 253ml NEM; 4.57L DMI	4.25	16.5L	2x16.5L
20:DPG	17L	a) 17L b) 17L, 390ml	3x17L	2x17L	941.9g; 253ml NEM; 4.57L DMI	4.75	17L	2x17L ¹¹
21:DPG	17L	a) 17L b) 17L, 390ml	3x17L	2x17L	1159.2g; 311ml NEM;	4.25	17L	2x17L

Figure 23 (continued)

⁹ Resin held at this stage for 0.4 days¹⁰ Resin held at this stage for 1.5 days¹¹ Resin held at this stage for 0.3 days

Cycle No.: Subunit (SU)	Pre-coupling Treatment				Coupling Cycle		Post-Coupling Treatment	
	1	2	3	4			1	2
	30% TFE/DCM Wash	CYTFA Solution ¹	Neutralization Solution	DCM Wash	Quantity SU (g) NEM (L) DMI (L)	RT Coupling Time (Hrs.)	DCM Wash	30% TFE/DCM Wash
					4.72L DMI			
22:C	17.5L	a) 17.5L b) 17.5L, 402ml	3x17.5L	2x 17.5L	858.7g; 311ml NEM; 4.72L DMI	4.75	17.5L	2x17.5L ¹²
23:A	17.5L	a) 17.5L b) 17.5L, 402ml	3x17.5L	2x 17.5L	888.3g; 311ml NEM; 4.88L DMI	4.25	17.5L	2x17.5L
24:T	18L	a) 18L b) 18L, 414ml	3x18L	2x18L	749.1g; 311ml NEM; 4.95L DMI	4.25	18L	2x18L ¹³
25:T	18L	a) 18L b) 18L, 414ml	3x18L	2x18L	749.1g; 311ml NEM; 5.1L DMI	4.25	18L	2x18L
26:T	18.5L	a) 18.5L b) 18.5L, 426ml	3x18.5L	2x 18.5L	749.1g; 311ml NEM; 5.1L DMI	4.25	18.5L	2x18.5L ¹⁴
27:C	18.5L	a) 18.5L b) 18.5L, 426ml	3x18.5L	2x 18.5L	858.7g; 311ml NEM; 5.25L DMI	4.25	18.5L	2x18.5L
28:T	19L	a) 19L b) 19L, 438ml	3x19L	2x19L	749.1g; 311ml NEM;	4.25	19L	2x19L ¹⁵

Figure 23 (continued)

¹² Resin held at this stage for 0.4 days¹³ Resin held at this stage for 0.4 days¹⁴ Resin held at this stage for 0.4 days¹⁵ Resin held at this stage for 0.3 days

Cycle No.: Subunit (SU)	Pre-coupling Treatment				Coupling Cycle		Post-Coupling Treatment	
	1	2	3	4			1	2
	30% TFE/DCM Wash	CYTFA Solution ¹	Neutralization Solution	DCM Wash	Quantity SU (g) NEM (L) DMI (L)	RT Coupling Time (Hrs.)	DCM Wash	30% TFE/DCM Wash
					5.25L DMI			
29:A	19L	a) 19L b) 19L, 438ml	3x19L	2x19L	888.3g; 311ml NEM; 5.41L DMI	4.25	19L	2x19L
30:DPG	19.5L	a) 19.5L b) 19.5L, 450ml	3x19.5L	2x 19.5L	1159.2g; 311ml NEM; 5.44L DMI	4.75	19.5L	2x19.5L

Figure 23 (continued)

Figure 24

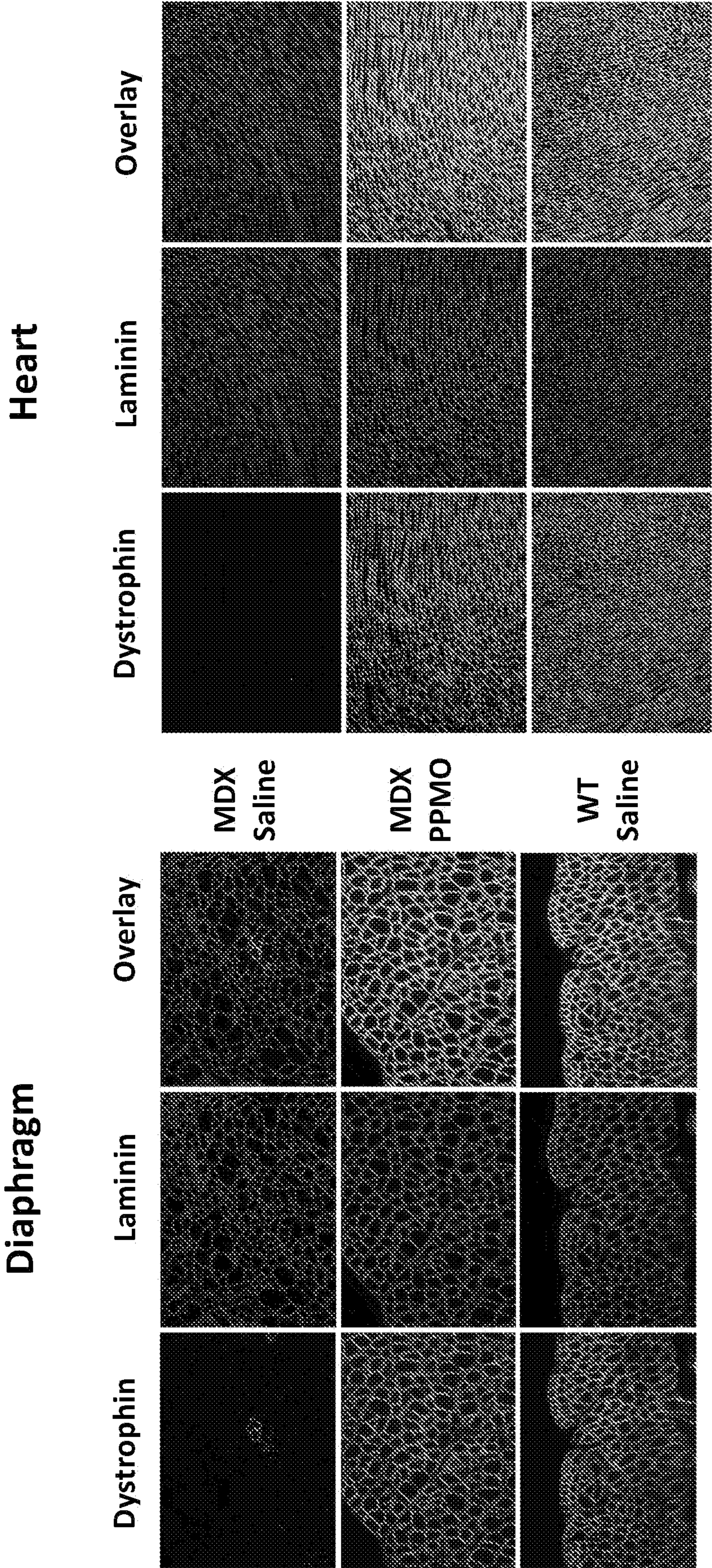


Figure 25

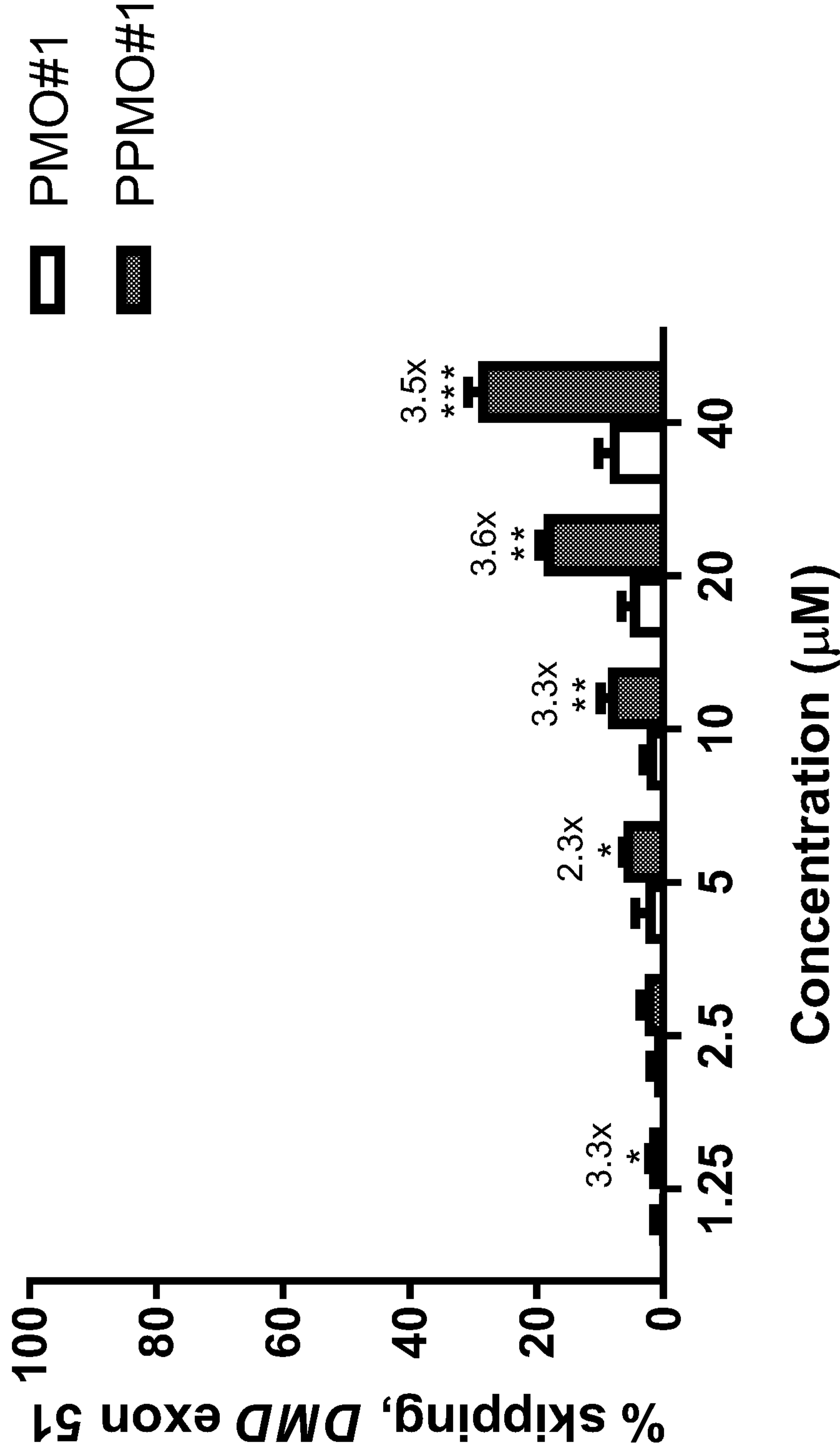


Figure 26

