

Absorptivity

Pelmisartan.

conc	295nm	224nm
5 µg	44.2	83.2
10 µg	88.2	781
15 µg	423.33 (A0C1)	768 (A0A2)
20 µg	415.5	788.5
25 µg	405.2	758.

Hctz.

conc	295nm	224nm
5 µg	11	90.6
10 µg	60	550
15 µg	79.33	563.33
20 µg	88.5 (A41)	565.5 (A42)
25 µg	90.4	615.6

Tablet powder

conc	295nm	224nm
20 µg	0.895 (A1)	1.871 (A2)

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Important Notes

$$A_1 = 0.895$$

$$ax_1 = 423.93$$

$$ay_1 = 88.5$$

$$A_2 = 1.871$$

$$ax_2 = 768$$

$$ay_2 = 565.5$$

$$cx = \frac{A_2 ay_1 - A_1 ay_2}{ax_2 ay_1 - ax_1 ay_2}$$

$$= \frac{1.871 \times 88.5 - 0.895 \times 565.5}{768 \times 88.5 - 423.93 \times 565.5}$$

$$= \frac{165.58 - 506.12}{67968 - 239893.12}$$

$$= \frac{-340.54}{-171425.12}$$

$$= 0.00198 \text{ g/100ml}$$

$$= 0.000198 \text{ g/10ml}$$

$$= 0.198 \text{ mg/10ml}$$

$$= 2 \rightarrow 0.198$$

$$= 10 \rightarrow n$$

$$= n = \frac{0.198 \times 10}{2} = \frac{1.98}{2}$$

$$= 0.99$$

$$= 0.99 \times 25$$

$$= \boxed{24.75}$$

February

Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
			1	2	3	4	5	6	7	8	9	10	11
12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28											



2023

$$C_y = \frac{A_1 a_{x2} - A_2 a_{x1}}{a_{x2} a_{y1} - a_{x1} a_{y2}}$$

$$= \frac{0.895 \times 768 - 1.871 \times 423.83}{768 \times 88.5 - 423.83 \times 565.5}$$

$$= \frac{687.36 - 792.050}{67968 - 239893.12}$$

$$= \frac{-104.69}{-171925.12}$$

$$= 0.000610 \text{ g/100ml}$$

$$= 0.0000610 \text{ g/1ml}$$

$$= 0.061 \text{ mg/10ml}$$

$$= 2 \rightarrow 0.061$$

$$10 \rightarrow m$$

$$= \frac{0.061 \times 10}{2} = \frac{0.61}{2}$$

$$= 0.305 \times 25$$

$$= \boxed{7.62}$$

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2023													
Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa	
12	13	14	1	2	3	4	5	6	7	8	9	10	11
20	21	22	15	16	17	18	19	20	21	22	23	24	25
			28	29	30	31							