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TRITIATED PLASMA SAMPLES

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HOLE POS.	SAMPLE	VOL	VOL. INT STD.	S_{cpm}	T_{cpm}	T_{corr}	T-S	S-b	$S\text{-}b_{corr}$	$\frac{T-S}{S-b_{corr}}$	TBW(l)
0	NC H_2O	STD.		28,021							
1		1.0 ml	0.1966	2614	10,048	10,671	8057	2577	2613	3.0834	38.92
2		2.0		4411	9,832	10,343	5932	1374	1435	1.3375	33.77
3		1.0		3285	10,634	10,293	8008	3248	3293	2.4318	30.70
4		2.0		4659	10,101	10,626	5967	4622	4687	1.2731	32.14
5		1.0		3788	11,460	12,171	8383	3751	3804	2.2037	27.82
6		2.0	↓	3535	9,078	9550	6015	3498	3547	1.6958	42.81
7	H_2O BLK	2.0		37							

NAME	BODY WEIGHT	TBW(Kg)	% TBW	$1-\left(\frac{\%TBW}{0.72}\right)$ = aprox. % Fat
	65.91	33.41	50.69	29.6
	67.27	33.26	49.44	31.3
	60.00	30.24	50.40	30.0
	60.91	31.66	51.98	27.8
	52.27	27.40	52.42	27.2
	72.73	42.17	57.98	19.5

S = sample
T = sample + Internal Std.
b = background
TBW = Total Body Water

$S\text{-}b_{corr} = S\text{-}b\,(1.014)$, To correct for 4-6 hrs.

$$TBW\,(liters) = \frac{\left(\frac{H_2O\ dilution}{2500}\right)\left(Sample\ Vol\right)\left(\frac{Vol.\ H_2O}{given}\right)}{Vol.\ Int.\ Std.}\left(\frac{T-S}{S-b_{corr}}\right)$$

$TBW\,(Kg) = TBW(l) \times 0.985$

Calibrations:
L. Meyer's 1ml pipette = 0.9927 ml
Int. Std. Auto ppt. = 0.1966 ml
Int Std dilution = 1:2500