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FOLDER NAME	Dr. Leo Meyer (Marshall Island Natives)
NOTES	
FOUND BY	Perry Hall

COPY

404607

TRITIATED PLASMA SAMPLES

DR. LEO MEYER
April, 1965

HCLC POS.	SAMPLE	VOL	VOL. INT STD.	Scpm	Tcpm	T _{corr}	T-S	S-b	S-b _{corr}	T-S S-b _{corr}	TBW(l)
0	NC H ₂ O STD.			28,021							
1		1.0ml	0.1966	2614	10,048	10,671	8057	2577	2613	3.0834	38.92
2		2.0		4411	9,832	10,343	5932	4374	4435	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 ₂ O BLK	2.0		37							

NAME	BODY WEIGHT	TBW(Kg)	%TBW	1 - $\frac{(\%TBW)}{0.92}$ = approx. % 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

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

$$TBW(\text{liters}) = \frac{(\text{H}_2\text{O dilution}) \times (\text{Sample Vol}) \times (\text{Vol. H}_2\text{O given})}{\text{Vol. Int. Std.}} \left(\frac{T-S}{S-b_{corr}} \right)$$

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

Calibrations:

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

PRIVACY ACT MATERIAL REMOVED