



I 131 THYROID BIOASSAY WORKSHEET

Location: ABC Veterinary Hospital
123 Walt Disney Blvd
Fantasy Land, FL 99999

Rb(raw): Measured background rate in uR/hr
Rb: Measured background rate in cpm
Rst: (raw): Measured Source rate in uR/hr
Rst: Measured source rate in cpm
Rt(raw): Measured thyroid uptake in uR/hr
Rt: Measured thyroid uptake in cpm / tms minutes
X: Reading Multiplier
cpm: Counts per minute
CF: Correction Factor
LLD: Lower limit of detection
tms: Counting time in minutes

SURVEY METER: Ludlum **Model #:** 3
Serial #: XXXXXXX
Calibrated: 7/12/20XX
Conversion Factor (uR/hr to cpm): 1 uR/hr = 175.0 cpm

$$CF: \frac{Rst-Rb}{A(uCi)}$$

$$LLD: (4.66/CF)(Rb/tms)^{1/2}$$

$$tms: Rb(4.66/(CFx.04))^2$$

A(uCi): Activity of source
Q(uCi): Thyroid uptake

A(uCi): 10 uCi

Rb: 1400 cpm
tms: 7.3 min round: 10.0 min

$$Q(uCi): \frac{Rt-Rb}{CF}$$

Q(uCi) limit: < 0.04 uCi

Date	Person Measured:	Rb(raw):	X:	Rst(raw):	X:	Rt(raw):	X:	Rb:	Rst:	Rt:	CF:	Q (uCi):
1/18/2023	Mickey Mouse	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87
1/18/2023	Donald Duck	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87
1/18/2023	Minnie Mouse	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87
1/18/2023	Daffy Duck	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87
1/18/2023	Pluto	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87
1/19/2023	Popeye	8.0	1.0	10.0	10.0	0.0	1.0	1400	17500	0	1610	-0.87

AEC
RSO
