

Development of a Device for Neurochemical Sample Collection from Freely Moving Monkeys

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Weights (g):

Microdrive Unit (MU) – 72.3

Silicone (S) –139.9

Bottom of tether (BT) (part that screws to the top of the upper cylinder) – 15.7

Top of Tether (TT) – 167.7 (the swivel)

Tether (T) – 195.9

Upper Cylinder (UC) – 110.9

Left Base (LB) – 69.7

Right Base (RB) – 66.9

Total Weight (MU, S, BT, UC, LB, & RB) = **475.4 g** or 1.04 lbs

Weight of Everything (TT & T included) = 839.0 g or 1.85 lbs

Steps for attachment:

1. Attach microdrive unit and make necessary adjustments
2. Attach surgical tape around the bottom rim of the base (figure 1)
3. Clamp silicone around the base of the microdrive unit (figure 2 & 3)
4. Attach both halves of the base and the upper cylinder (figure 2 &3)
5. Clamp the two halves of the aluminum base together using a hose clamp
6. Fasten collar around monkey's neck using internally threaded zip tie (figure 4)
7. Fasten straps on both sides of aluminum base using zip ties (figure 5)
8. Attach tether (figure 5)



Figure 1



Figure 2



Figure 3



Figure 4



Figure 5