Calcuate Quontitus of $M g$ a B Oowdn (1) for readen to $\mathrm{Ng}_{2}$ in Quatz tube
Tubs inner oolume: $\mathrm{O}_{\wedge} \leftrightarrow 4.2 \mathrm{~mm}$

$$
V \approx 475 \mathrm{~mm}^{3}
$$


Fhe $\rightarrow$ That Volune of MatB govdn shend

$$
b_{e} \sim 570 \mathrm{~mm}^{3} \sim 0.6 \mathrm{~mL} \sim 0.6 \mathrm{CC}
$$

$$
\Delta_{m L}=1 c c
$$


Nivar Mass of $B=10.811 \mathrm{~g}_{3} / \mathrm{md}_{B}$
Densety of $\mathrm{Ng} \equiv 1.738 \mathrm{~g}_{\mathrm{mg}} / C C_{\mathrm{mg}}$
Dansily of $B=2.37 \mathrm{~g}_{B} / C C_{B}$
Ndiermiss of $\mathrm{Mg}_{2}=45.927 \mathrm{~g}_{\mathrm{mg}_{2} 2} / \mathrm{mO}_{\mathrm{mg}_{2}}$

$$
\begin{gathered}
N_{g} \equiv 1.738 g_{m g} / C C_{m g} \\
2 B \equiv 4.74 g_{B} / C C_{B} \\
\left.M g(2 B)\right|_{\text {unreated }} \cong 6.478 g_{m g(2 B)} / C C_{1 g(2 B)} \mid \\
\left.M g B_{2}\right|_{\text {mended }} \equiv 2.57 \mathrm{~g}_{\mathrm{mg}, 2} / C C_{m g B_{2}}
\end{gathered}
$$

*Tan mins of uneected $\mathrm{Mg}(28)$ Paudn $=3.89 \mathrm{~g}$ to fill tube.
Nor Mres of $\mathrm{N}_{\mathrm{y}}(2 B) \equiv$ Mor Muss of $\mathrm{Mg}_{\mathrm{g}} \mathrm{Z}_{2}$

$$
\begin{aligned}
& \text { * } 0.085 \mathrm{Al}_{\mathrm{mg}} \equiv 2.066 \mathrm{~g}_{\mathrm{mg}} \\
& \text { * } \left.0.085 \mathrm{NO})_{23} \equiv 0.17 \mathrm{Al}\right)_{B} \equiv 1.838 \mathrm{~g}_{\mathrm{B}} \text { * }
\end{aligned}
$$

