



Figure 4 Collected NH_4Cl using two coiled glass tubes, and a fritted reservoir

Conclusion

Traditional gas sampling methods using impinger have been pointed out to have particles missing problem, which was a big issue of measurement of airborne virus. However, from this research, the coiled glass tube with a dew reservoir resulted in sufficient recovery of NH_4Cl fume. Moreover, the blank value of impingers was 6 to 9 μg whereas that of coiled glass tube was 1.0 to 1.4 μg . Coiled glass tube equipped with a dew reservoir on-line installed has an advantage of collecting particulate matter as well as low blank value.

References:

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