

Fig. 1

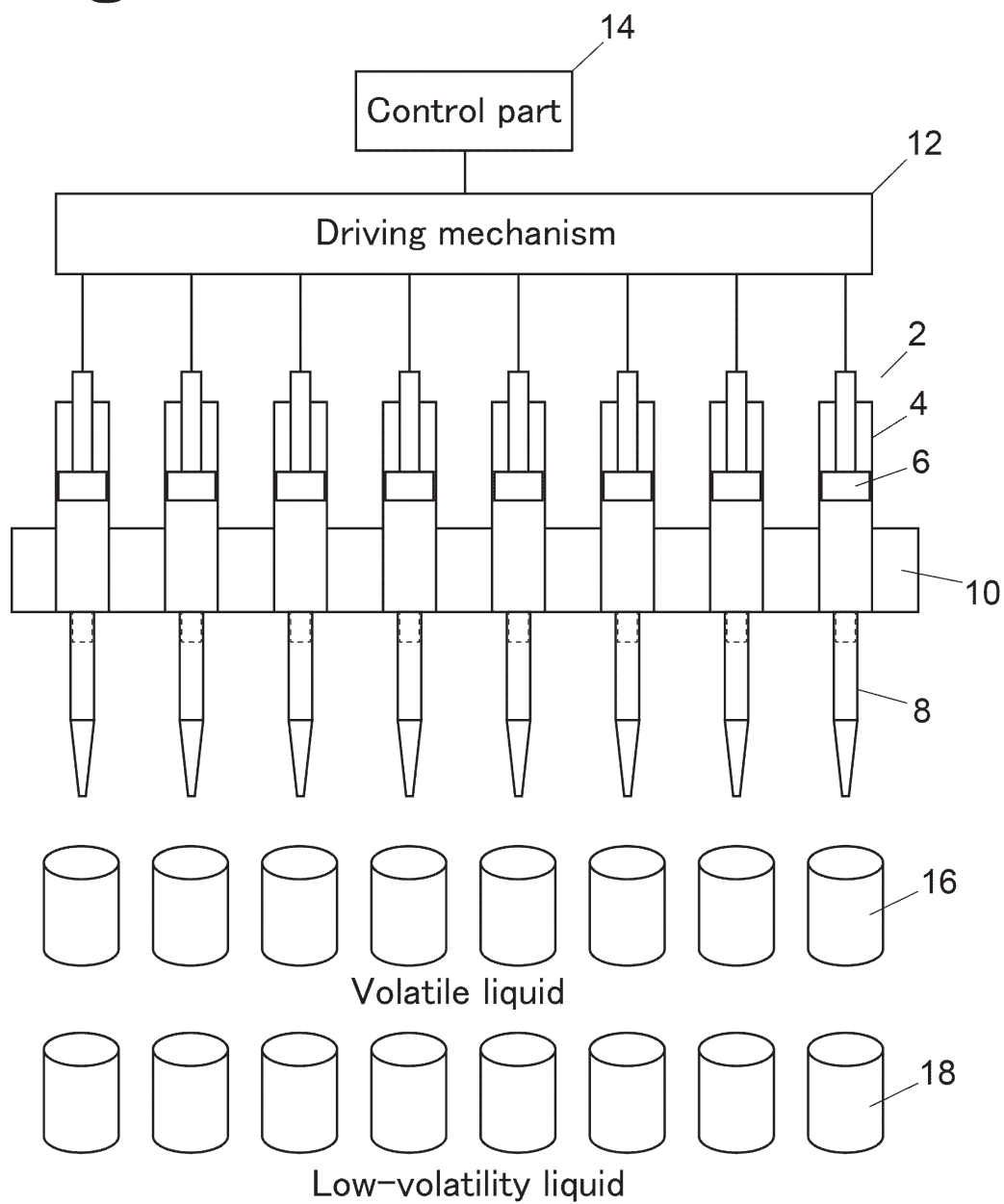
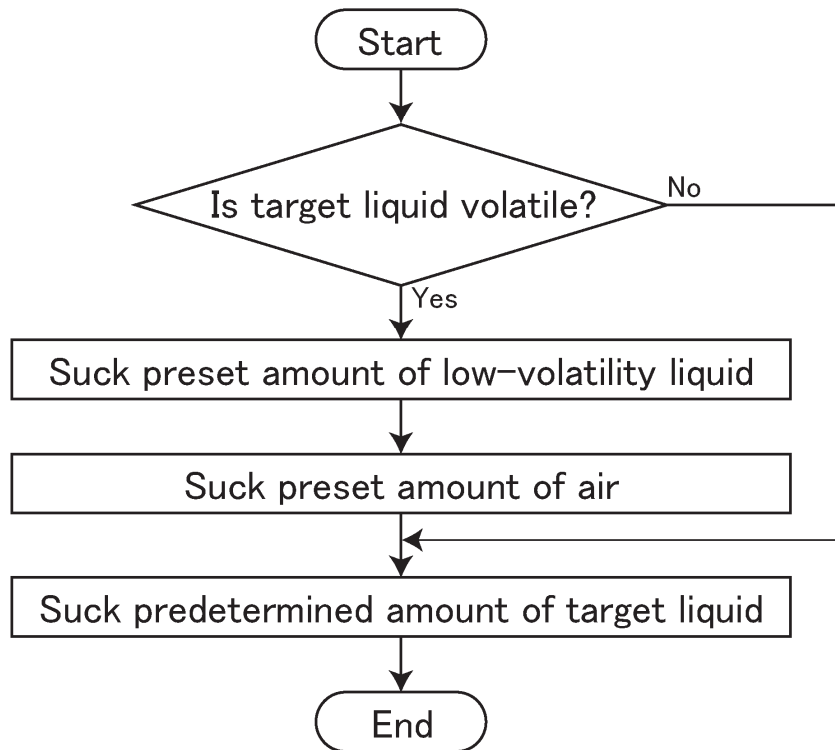
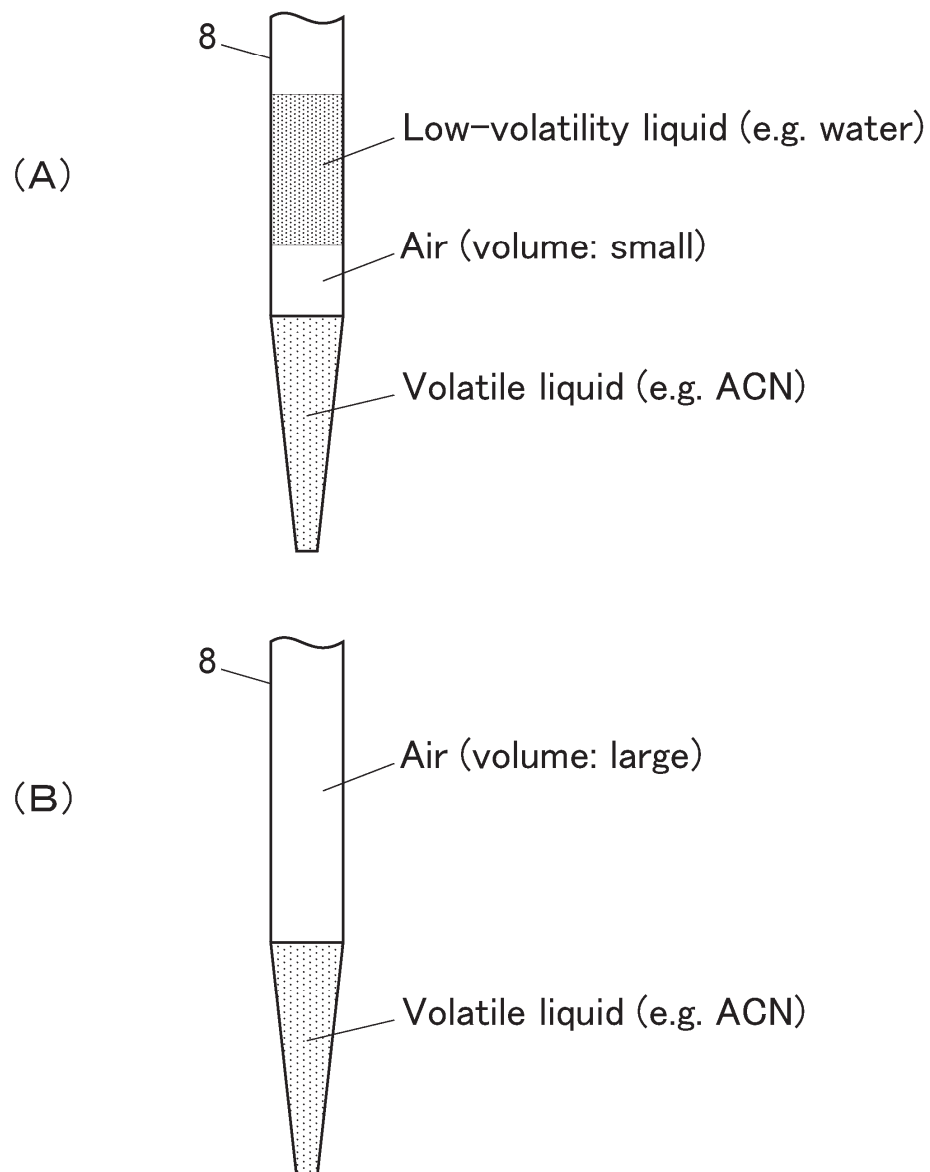


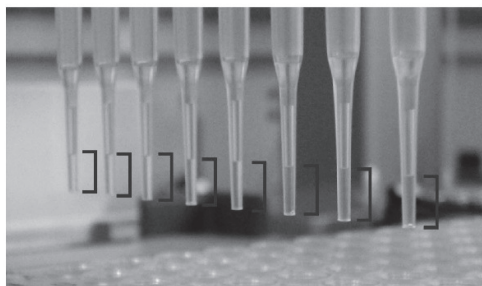
Fig. 2



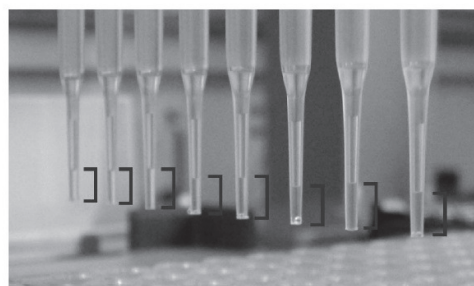
**Fig. 3**

# Fig. 4

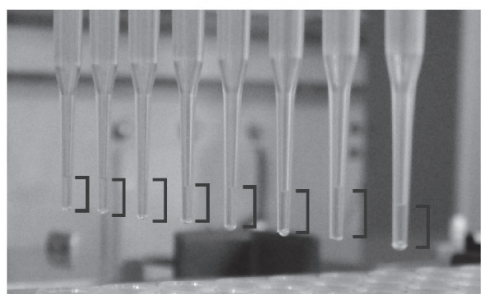
(A) With pre-suction  
0 second



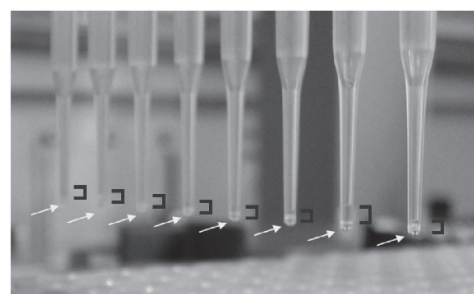
After 60 second

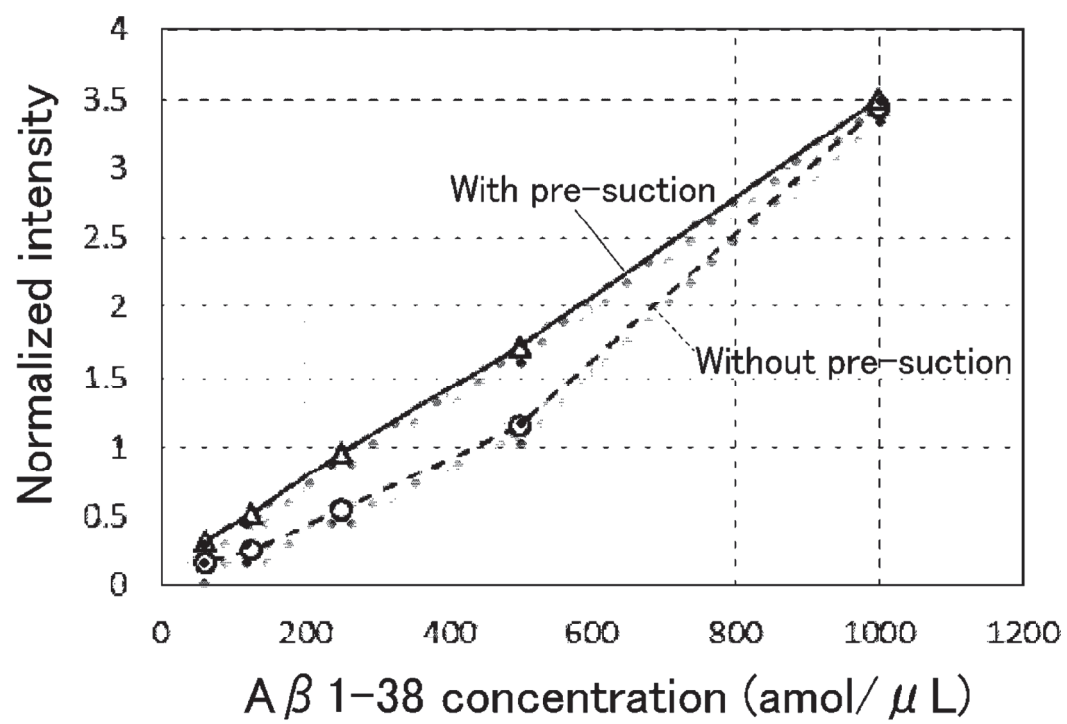


(B) Without pre-suction  
0 second



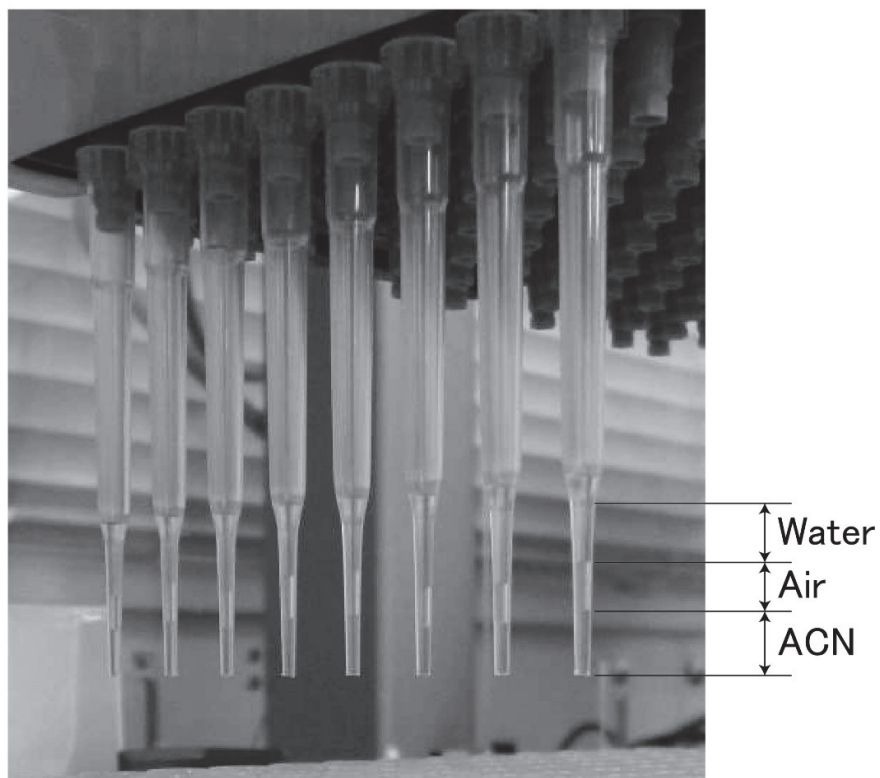
After 60 second



**Fig. 5**

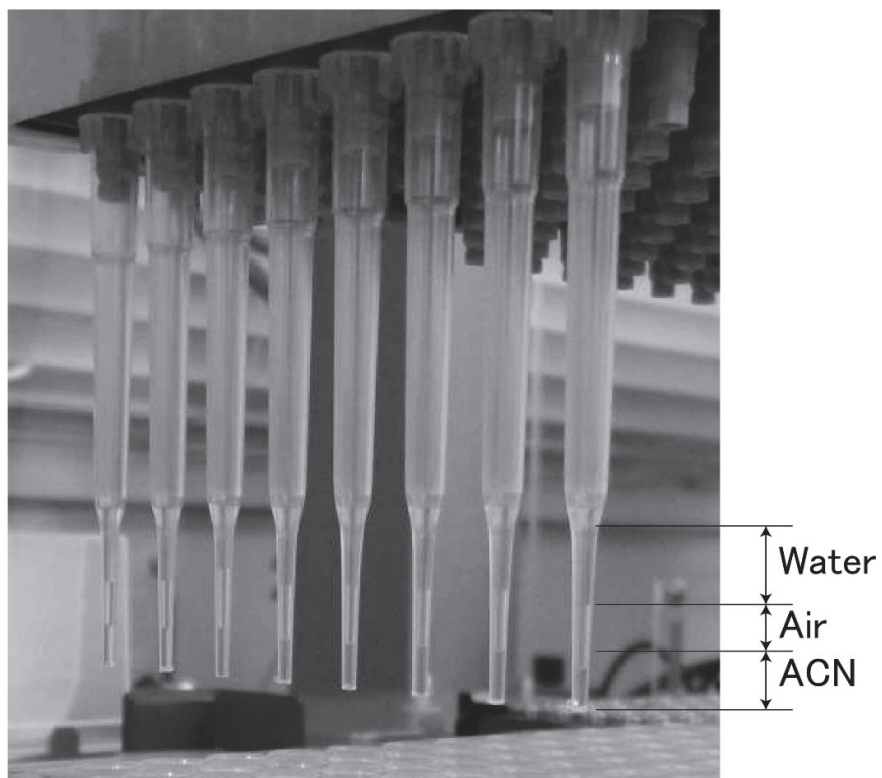
**Fig. 6**

Air layer: 2  $\mu$  L



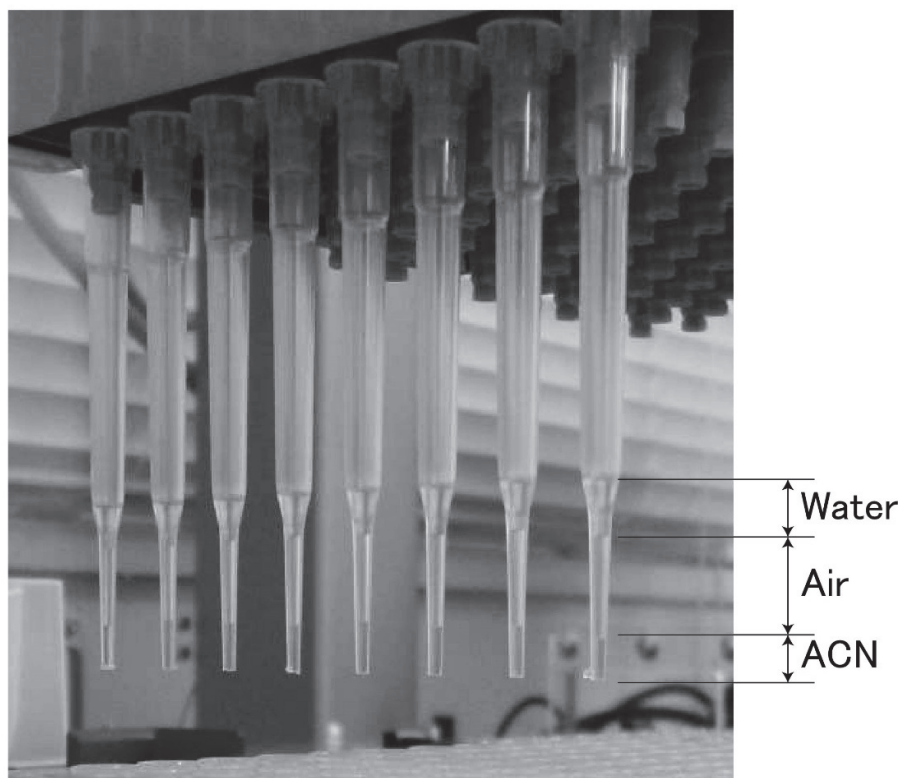
**Fig. 7**

Air layer: 3  $\mu$  L



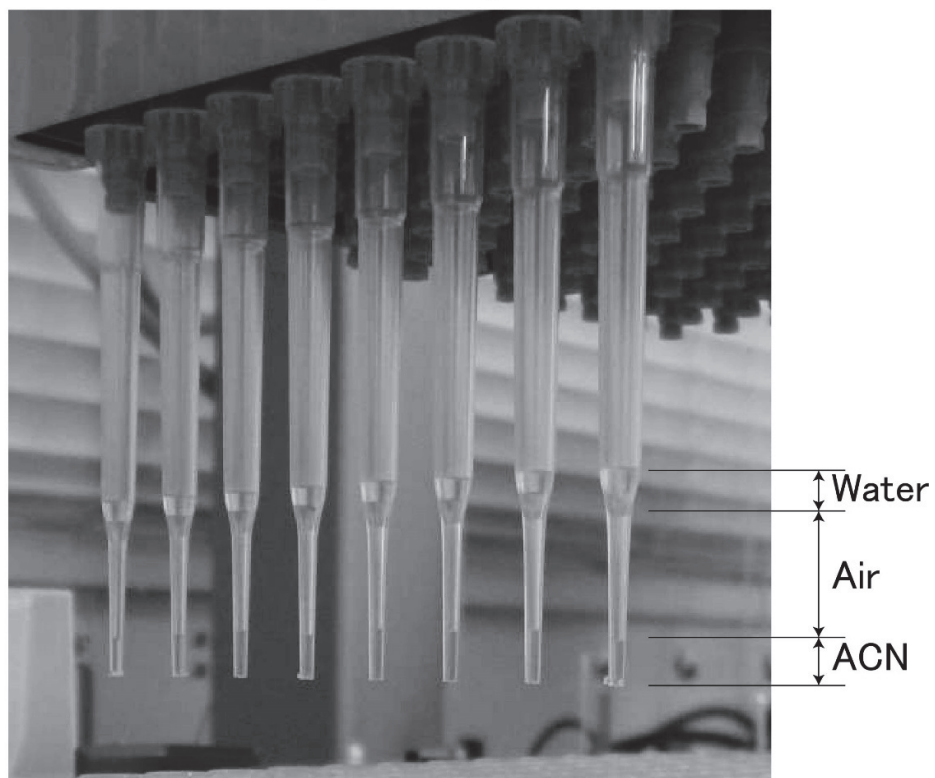
**Fig. 8**

Air layer: 5  $\mu$  L



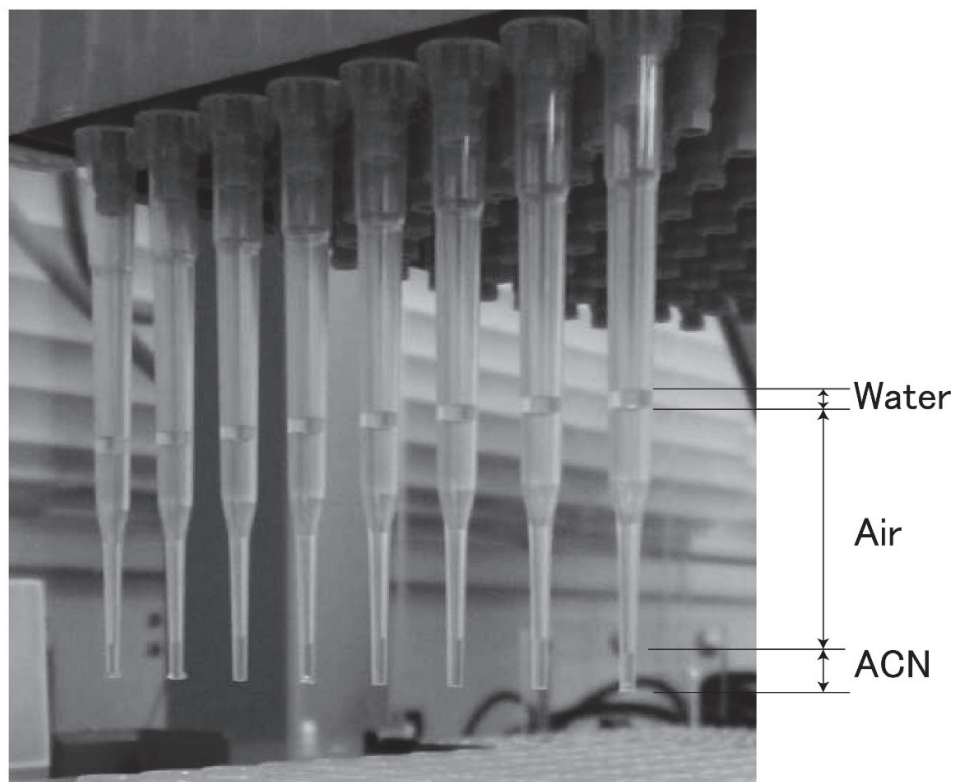
**Fig. 9**

Air layer: 10  $\mu$  L



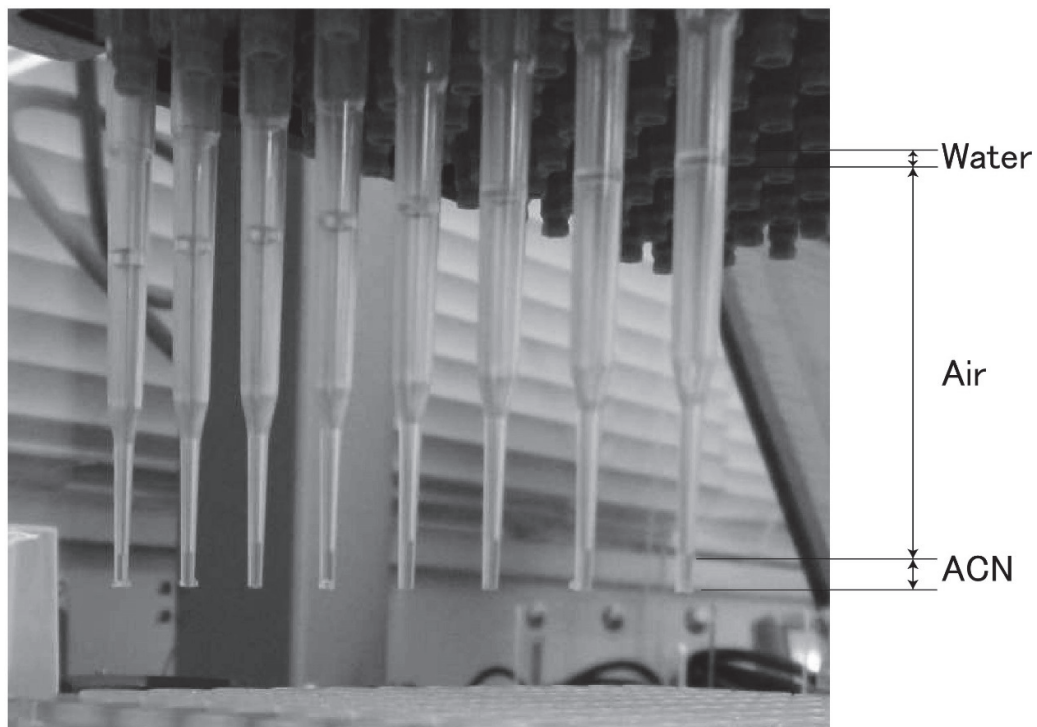
**Fig. 10**

Air layer: 50  $\mu$  L



**Fig. 11**

Air layer: 100  $\mu$  L



**Fig. 12**Air layer: 150  $\mu$  L