



# CiS-DNA Swab DNA Kit Datasheet

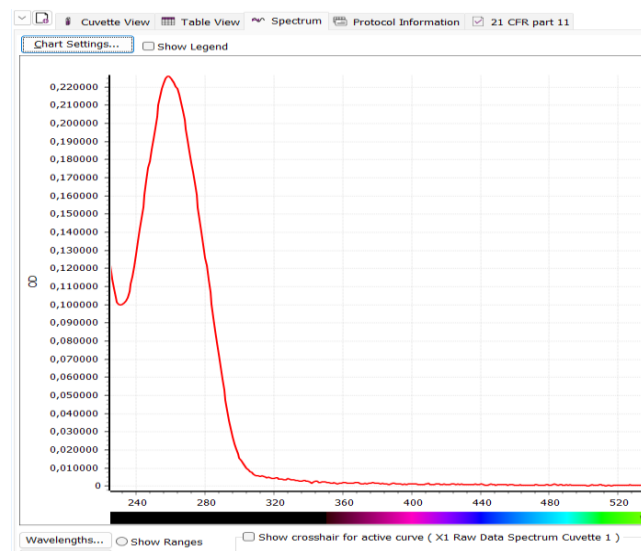
Cat DSW0116-10, DSW0116-50, DSW0116-100

CiS-DNA Swab DNA kit has been designed for rapid and safe isolation of high-yield, pure, and intact DNA from the swabs (or plastic shafts, cotton, and other types) collected from buccal, oropharyngeal, nasal, vaginal, urethral, and other mucosal tissues without using hazardous chemicals (phenol, chloroform, acid, etc.).

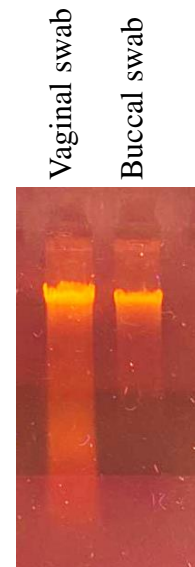
CiS-DNA Swab DNA kit can extract human DNA and pathogen/viral nucleic acids from fresh, wet or air-dried swab samples or stored samples at -80 °C. Frozen tissues should be avoided from freeze-thaw cycles as it can reduce DNA yield. There is no need to use glass beads or grinders to disrupt the tissue sample. CiS-DNA Swab DNA kit can extract DNA from the surface of mucous layers of body cavities including urethral, vaginal, oropharyngeal, nasal, and other tissues.

DNA purified using CiS-DNA Swab DNA kit procedure is free of protein contamination as proteinase digestion was applied before the NBB Buffer lysis/binding step followed by a spin-column-based high-pure washing.

Average DNA yields are 10-15 µg DNA from vaginal and buccal swabs and 2.5-5 µg DNA from nasal swabs.



$A_{260}/A_{280}$ : 1.75-1.90  
 $A_{260}/A_{230}$ : 1.8-2.0  
(Dilution: 1:50)



DNA molecules from swab samples collected from different cavities were run on agarose gel (0.75%, 0.5 X TBE buffer)

**Caution:** Please pay attention to wearing a lab coat, gloves, and protective goggles.

CiS-DNA spin-columns and buffers can be stored at room temperature for at least one year. However, lyophilized proteinase K should be stored at 4 °C. After reconstitution, please keep the enzyme solution only at 4 °C and prepare aliquots to store at -20 °C for long-term storage.