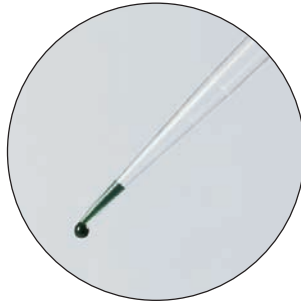
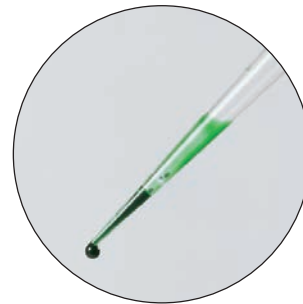


Comparison of surface characteristics of different pipette tips made of polypropylene

The pictures show the visible differences on the surfaces of **nerbe plus** pipette tips compared to standard tips and siliconised tips (interior surface, photographed with SEM/EDS and magnified between 50 to 5,000 times).



Premium surface tips after pipetting of a 100 μ l sample



Standard tip after pipetting of a 100 μ l sample

Sample transfer in the automatization with high throughput screening (HTS) and DNA sequence analysis has the highest requirements on the plastic articles used.

The preparation of the samples is usually described in detail while reproducibility and accuracy is assumed as given. An exact transfer of the sample requires an optimally harmonized function of your pipette with the used pipette tip. Calibrated pipettes usually work with an accuracy of approx. +/- 1 %.

The deviation to higher values is often caused by the lack of quality of the used pipette tips. **nerbe plus** pipette tips eliminate this risk for you, because they ensure the highest accuracy and reproducibility, guaranteed.

Extensive scientific research in the comparison of standard polypropylene articles used in biotechnological laboratories with **nerbe plus** products have shown that significant amounts of DNA may get lost through absorption of the disposable standard plastic articles used (pipette tips, reagent tubes, PCR plates, etc.).

DNA fragments denaturalize easily while bound on standard PP surfaces. There they have a tendency to dehydrate, which inevitably leads to malfunction. These negative characteristics do not occur in **nerbe plus** premium surface products. Precision and accuracy are guaranteed.