

# Standard Solution for the NanoPhotometer NP80/N60/N50


The Standard Solution is available in two packages:  
**N-568-S2** including two vials and  
**N-568-S** including ten vials

The Standard Solution is used to verify the absorbance accuracy of the NanoPhotometer® NP80/N60/N50 NanoVolume options. It is included in the IQ/OQ documentation for the NanoPhotometer® NP80 (N-80-Q) and N60 (N-60-Q).

**Hazardous information:** Please read the Material Safety Data Sheet carefully prior to using this product.

All required information about the Standard Solution is available on the Standard Solution box label:

Example label:

Standard Solution for the   
NanoPhotometer NP80/N60/N50

Potassium hydrogen phthalate (PHP)  
Item No: N-568-S2  
CAS-No: 877-24-7  
Lot No: 1702  
10 mm Absorbance (280nm): 21.73 A  
@ 20 - 25°C  
Expiration date: see label

Implen GmbH, Schatzbogen 52, D-81829 München, Germany

**Note:** Specifications for the Standard Solution are guaranteed for one year. Please refer to expiration date on the box. Once a vial is opened, the Standard Solution can be used for 30 minutes. For most accurate results, the NanoPhotometer® should be turned on 15 minutes prior to taking the readings.

## Check of Absorbance Accuracy:

1. Open Method: More Apps => Wavelength
2. Set the following parameter: Dilution 15 (NP80/N60) and Dilution 140 (N50); Wavelength 280 nm; Baseline Correction 377nm; Smoothing 1
3. Clean measurement head (sample window and mirror) with 70% Ethanol and subsequently with clean water
4. Blank with 1.5 µl water
5. Clean measurement head (sample window and mirror) with lint free tissue
6. Before opening a vial, mix it vigorously and make sure that the whole liquid collects at the bottom of the vial. Break the vial carefully at the predetermined breaking point (white line).

**Caution: Danger of injury at the breaking edge!**

7. Apply 1.5 µl Standard Solution. Close the sample arm immediately and measure. Result should be within +/- 5% of the certified absorbance value.
8. Clean measurement head (sample window and mirror) with 70% Ethanol and subsequently with clean water

**Note:** To achieve best and certified absorbance values all readings must be taken within a temperature range of 20°C – 25°C.

## Ordering Information:

Item Number:	Description:
N-568-S	<b>Standard Solution</b> (10 x 0.5 ml) for the control of the photometric accuracy of the NanoPhotometer® NP80, N60 and N50 (NanoVolume)
N-568-S2	<b>Standard Solution</b> (2 x 0.5 ml) for the control of the photometric accuracy of the NanoPhotometer® NP80, N60 and N50 (NanoVolume)

For questions please contact the Implen Support Team:  
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