

## Certificate of Calibration

Date of issue: 230829  
User: Olaf Brenn  
Measurement Instrument: Optical Density (Heiland TRD2)  
Manufacturer Chart: Stouffer Industries  
Type: T2120 CC  
Serial: KM00012  
Comment: n.a.

The results of the calibration have been obtained as vendor based calibration following the procedures reported in this Certificate and are related only to the date, place and conditions of the calibration.

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Date of Calibration: 230829  
Calibrated by: Olaf Brenn

Sign: <sign>

## Reference Material Data

Reference Material:	BAM-X001, Optical Density Film Step Tablet (certified by BAM using NIST Standard 38100C X Ray film, serial: 1712002, calibration mark: 3641-02)
Reference ID:	21-2311
Ext. Reference Calibration Date:	230622
Calibration made:	230829
Reference Calibration Expiration:	280622

## Calibration Process

Ambient Conditions:	24 °C, 50 % rel. humidity
Calibration Process:	according to SOP (Version) as part of ISO 13485, V6, dated 230727

## Recommended Application Range

The reference material is for checking densitometers in an optical density range  $D$  of  $0.2 < D < 3,5$ .

## Handling

The measurement must be made in the center of each field.

## Transport and Storage

The material must be stored in a cool, dry and dark environment at approx.  $< 25$  °C in order to prevent premature aging. Transport can be in a light-tight sealed envelope take place under normal conditions.

### Calibration Results

Step Number	Optical Density [D]
1	0.06
2	0.28
3	0.45
4	0.62
5	0.83
6	1.01
7	1.21
8	1.42
9	1.61
10	1.79
11	1.97
12	2.17
13	2.37
14	2.56
15	2.75

$\Delta D < \pm 0.02 \text{ OD}$