

DLCO Bio-Calcheck EasyOne Pro

General:

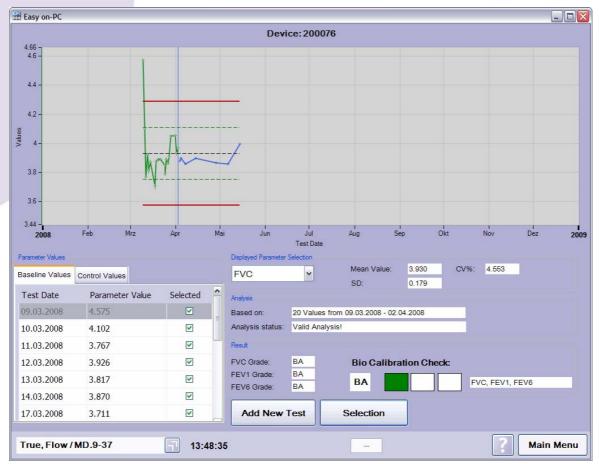
A Bio-Cal-Check tests the performance of the equipment and operational reliability without using a calibration tool like for example a syringe. A Biological Standard subject (BioCal Subject, usually 1or more operators) performs a series of tests which are observed and statistically controlled whether they are within an expected range. Usually a Lewy Jennings plot with SD

The data is collected on individual healthy, non smoking BioCal Subjects.

Main Screen BioCal-Check:

## Easy on-PC							
Device Selection			BioCal Subject Select	tion			
Serial Number	DeviceType		Patient ID	Last Nar	ne	First Name	
200220	SPIROSON_AS		001	Björnsso	n	Olaf	
200065	SPIROSON_AS						
							Add New
							BioCal Subject
Parameter Values Baseline Values	Control Values		Displayed Parameter	Selection	Mean Value: SD:	0.0 CV%:	0.0
Test Date	Parameter Value	Selected	Analysis Based on: Analysis status: Result				
			FVC Grade: FEV1 Grade: FEV6 Grade:	Test	Bio Calibra Graph	ation Check:	
		13:25:26			2		Main Menu





Procedure: Open BioCal-Check and Add New Test

- 1. Start application
- 2. Open menu *Utilities*
- 3. Open menu Check Calibration
- 4. Open menu *Biological Calibration Check* (Main Screen BioCal-Check is opened)
- 5. *Device Selection:* Select device according to serial number (check label on sensor)
- 6. BioCal Subject Selection: Select subject which performs the BioCal-Check test. If the subject is not in the list, press **Add New BioCal Subject** and select or add new subject. Afterwards return to BioCal-Check menu.
 - a. Recommendation: Set Patient ID to 'Bio-1, Bio-2, ...'
- 7. Press Add New Test
- 8. Perform Test (Test selection: DLCO, (or TLCO,) VA, others as applicable
 - a. Recommendation: Try to blow a QC-Grade 'A' test
 - b. Recommendation: Perform only one BioCal-Check test a day
- 9. Press Finish Test
- 10. The result is shown in the *Analysis* section and the *Result* section.



Functionalities to Review Data:

- 1. The show the trend graph press the *Graph* button
- 2. To select another review parameter change selection in *Displayed Parameter Selection* section
- 3. The *Parameter Values* section is divided into 2 Tab-Sheets: *Baseline Values* (used to calculate warning levels) and *Control Values* (controlled values for BioCal-Check QC-Grade calculation)
- 4. To deselect a Test (*Baseline* and Control Values) remove the ☑ mark in the *Parameter Values* section of the according test. A deselected test is not used anymore for calculations. This means also that by deselecting a *Baseline Value*, the first *Control Value* is moved to the *Baseline Values* because a minimum number (20) of Baseline Test is required for valid analysis.

Specifications BioCal-Check QC-Grade:

For each parameter as selected, an individual BioCal-Check QC-Grade is calculated. Additionally the lowest grade of all parameters is reported.

Bio-QC-	Limitation	Additional Limitation		
Grad				
BA	-	-		
BB	1 value out ± 2SD	-		
BC	1 value out ± 3SD	-		
	>= 4 values out of ± 1SD	only consecutive values on same side of mean		
BD	>= 2 values out of ± 2SD	only consecutive values on same side of mean		
	>= 1 values out ± 3SD	-		
	>= 10 values, consecutive on	-		
	same side of mean			
BF	< 20 baseline values			

■ Bio-Cal-Check ok

Warning: repeat Bio-Cal-CheckOut of control: Contact ServiceOut of control: Contact Service

Spirometry:

Proceed accordingly for FVC, FEV1, FEV6, VC In