

## VALIDATION - CERTIFICATE



**Biotechnologie-Gesellschaft Mittelhessen mbH**  
**Kerkrader Str. 7**  
**35394 Gießen**

The test conducted  
 according to the  
 Pharmacopée Européenne  
 (Medical book – addendum 2000)

**for medical air**

achieved the following values using the test unit

**BS-P75 <sup>1)</sup>**

**(Zander Aufbereitungstechnik GmbH, Essen)**

Component (Name)	Unit value		Reference		Test gas (Inlet concentration)	Test result (Outlet after continuous operation) <sup>3)</sup>	
	Acc. P.E.		Atm. air	Compressed air			
air	colourless/odorless		colourless/odorless			colourless/odorless	
	mg/m <sup>3</sup>	ppm <sub>V/V</sub>	ppm <sub>V/V</sub>	ppm <sub>V/V</sub>	ppm <sub>V/V</sub>	mg/m <sup>3</sup>	ppm <sub>V/V</sub>
<b>Carbon dioxide</b> CO <sub>2</sub>	-	≤ 500	500	350	<b>500</b>	-	< 150
<b>Carbon monoxide</b> CO	-	≤ 5	< 2	< 2	<b>2</b>	-	< 2
<b>Sulfur dioxide</b> SO <sub>2</sub>	-	≤ 1	< 0,1	< 0,1	<b>0,1</b>	-	< 0,1
<b>Oil</b>	≤ 0,1	-	-	-	-	< 0,003 <sup>4)</sup>	-
<b>Nitrogen monoxide</b> NO	-	Σ ≤ 2	Σ ≤ 1	Σ ≤ 1	<b>2</b>	-	Σ < 1
<b>Nitrogen dioxide</b> NO <sub>2</sub>	-	Σ ≤ 2	Σ ≤ 1	Σ ≤ 1	<b>2</b>	-	Σ < 1
<b>Water vapour</b> H <sub>2</sub> O	-	≤ 67	-	-	-	-	< 15
<b>Oxygen</b> O <sub>2</sub>	-	20,4 - 21,4	-	-	-	-	20,8 - 21,1

<sup>1)</sup> identical to KMB-P 75    <sup>2)</sup> operating conditions acc. to unit specification    <sup>3)</sup> 24 hours to 300 hours    <sup>4)</sup> see separate filter validation

**Gießen, 19/09/2001**



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