

## Product Specification Sheet

**Product line:**
***Chitoceuticals***

Product: Chitosan Lactate  
 Product No.: 44003  
 Storage conditions: < 25 °C, dry and well closed  
 Shelf life: 36 months  
 Valid from: 01.07.2011

**Parameter**
**Method**
**Specification**

Appearance of solid product	HMC QK-PA-0001	white to light yellow
Appearance of solution	HMC QK-PA-0002	clear, colorless to slightly yellowish
Degree of deacetylation	HMC QK-PA-0014	80 - 95 %
Viscosity (1 % in 1 % acetic acid, 20 °C)	HMC QK-PA-0004	≥ 5 mPas
pH (1% in water, 20 °C)	HMC QK-PA-0013	3.0 - 7.0
Ashes (sulphated)	HMC QK-PA-0005	≤ 1 %
Dry matter content	HMC QK-PA-0006	≥ 90 %
Insolubles	HMC QK-PA-0010	≤ 2 %
Heavy metals		
Pb	HMC QK-PA-0019	≤ 40 ppm
Hg	HMC QK-PA-0020	≤ 0.2 ppm
Cd	HMC QK-PA-0020	≤ 0.5 ppm
As	HMC QK-PA-0020	≤ 0.5 ppm
Protein content	HMC QK-PA-0008	≤ 0.5 %
Microbiological tests		
Total bacterial count	HMC QK-PA-0022	≤ 1000 CFU/g substance
Yeast & mould	HMC QK-PA-0022	≤ 100 CFU/g substance
For reference		
Molecular weight by GPC will be in the range of 30 - 500 kDa.		

Halle (Saale), 01.07.2011

  
 Torsten Richter  
 Head of QA/QC

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