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**CERTIFICATE OF QUALITY**

Name of compound:

**Sodium mercaptododecaborate (10B), BSH****Cat. No.: 210**Na<sub>2</sub>[<sup>10</sup>B<sub>12</sub>H<sub>11</sub>SH]

CAS No.: 12448-24-7

Declared chemical purity: &gt;98%

Declared isotopic purity of 10B: &gt;99,5%

**THE RESULTS OF ANALYSES**

Batch No.: 23/01	
Type of analysis	Results
10B NMR, D2O	-12.5(s,1B); -16.8(d,5B); -18,9(d,5B); -22.4(d,1B); [ppm]
1H NMR, D2O	1.33(H-B); 1.13(H-B); 0.92(H-B); [ppm]
Boron, acid-base titration	101% of Sodium mercaptododecaborate (10B), BSH
Bacterial endotoxins	<0.008 EU/mg
Liquid chromatography	4.02 min-->0.3%(dimer S-S);5.03 min-->99.3%(BSH)
Date of issuance: 13.02.2023	

There are no impurities detectable by NMR. Sensitivity of NMR device is 1%. For more details see the attached NMR spectrum.  
For more details about isotopic purity of boron see the attached certificate of boric acid (the very first precursor).  
The bacterial endotoxins are in accordance with limits (see attached report).  
HPLC analyzing succesful (limits: BSH>98%, S-S dimer <2%). More in spectrum.

Output control: Ing. Roman Keder, PhD.  
Supervised by: Ing. Zdeněk Duda