

## Specification

# N-Acetylneuraminic acid

### 1) Product description and composition

Synonyms	Neu5Ac Sialic acid
Formula	C <sub>11</sub> H <sub>19</sub> NO <sub>9</sub>
Molecular weight	309.27 g/mol
CAS No.	131-48-6

### 2) Analyses

Parameter	Specifications	Method
Appearance (Colour)	white to ivory-coloured	visual
Appearance (Form)	powder	visual
N-Acetylneuraminic acid	≥ 98 % (Area)	HPLC
pH (2% water solution)	1.8 – 2.3	
Water content	≤ 2 %	Karl-Fischer titration
Total Ash	≤ 2 %	ASU L 06.00-4
Protein content	≤ 100 µg/g	Nanoquant (modified Bradford)
Lead	< 0.1 mg/kg	ASU L 00.00-135 – ICP-MS
Standard Plate Count	< 500 cfu/g	ISO 4833-2
Yeast	< 10 cfu/g	ISO 21527-2
Mold	< 10 cfu/g	ISO 21527-2
<i>Enterobacteriaceae</i>	absent in 10 g	ISO 21528-1
<i>Cronobacter sakazakii</i>	absent in 10 g	ISO/TS 22964
<i>Salmonella</i>	absent in 25 g	ISO 6579
<i>Listeria monocytogenes</i>	absent in 25 g	ISO 11290-1
<i>Bacillus cereus</i> , presumptive	< 50 cfu/g	ISO 7932
Endotoxins	< 10000 EU/g	Ph. Eur. 2.6.14
Shelf life	2 years from production date	

**Caution! Product is hygroscopic! Please store dry and in an airtight container!**  
**Achtung! Produkt ist hygroskopisch! Bitte trocken und luftdicht verschlossen lagern!**