

## Product Specification.

## VERISEQ® Research liq Nitrogen CoA.



**Article no.:** 104650

**Product name:** VERISEQ® Research liq Nitrogen CoA

Pharmaceutical industry, with Certificate of Analysis

Chemical formula: N<sub>2</sub>
Chemical name: Nitrogen

	Chemical	Unit	Linde specifications		Pharmacopoeia monographs			
Component			VERISEQ®	VERISEQ <sup>®</sup>	EP	EP	USP/N	F JP
	formula		Process	Research		low		
			Nitrogen¹)	Nitrogen <sup>1)</sup>		oxygen		
Nitrogen	N <sub>2</sub>	0/0	≥ 99.5	≥ 99.999 <sup>2)</sup>	≥ 99.5	≥ 99.5	≥99.0	≥ 99.5
Water	H <sub>2</sub> O	ppm	≤5	≤3	≤67			
Oxygen	02	ppm	≤5	≤3	≤50	≤5	≤1.0%	
Carbon monoxide	CO	ppm	≤5	≤5	≤5		≤10	
Carbon dioxide	CO <sub>2</sub>	ppm	≤300	≤300	≤300			n.s. <sup>4)</sup>
Argon	Ar	0/0	≤0.5	≤0.5		≤0.5		
Odour			n.d. <sup>3)</sup>	n.d. <sup>3)</sup>			n.d. <sup>3)</sup>	
Total hydrocarbons	C <sub>0</sub> H <sub>m</sub>	ppm		≤1				

<sup>1)</sup> The AGA product specifications are updated when the specifications in the pharmacopoeia monographs are changed.

<sup>2)</sup> Purity including rare gases.

<sup>3)</sup> n.d. = not detectable.

<sup>4)</sup> n.s. = not specified. Wet chemistry method to detect the level of carbon dioxide.