NITROSAMINE ANALYSIS

BACKGROUND

Nitrosamines or N-Nitrosamines are chemical compounds believed to be carcinogenic to humans based on animal studies. They are formed between nitrates or nitrites and certain amines under acid conditions such as in the human stomach.

Contamination with Nitrosamines have been detected **in various drugs** emphasizing the necessity of an **inspection of production processes**.

Since 2020 authorities such as the **FDA and the EMA** have been cooperating to share information and develop methods for the detection and identification of Nitrosamines in order to **ensure drug safety and quality**.

SOURCES OF CONTAMINATION

- Raw materials and intermediate products
- Solvents (such as DMF)
- Reagents and catalysts
- Development during chemical synsthesis
- Packing material ...

Critical values acc. ICH M7 (R1)

Nitrosamine	Tolerated dose (ng/day)
NDMA, NMBA	96,0
NDEA, DIPNA, EIPNA	26,5



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