

ISO 10130:2009-12 (E)

Cosmetics - Analytical methods - Nitrosamines: Detection and determination of N-nitrosodiethanolamine (NDELA) in cosmetics by HPLC, post-column photolysis and derivatization

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Principle	1
3	Reagents	1
4	Apparatus	2
5	Sample preparation and storage	3
5.1	General	3
5.2	Standards preparation	4
5.2.1	Primary stock solution	4
5.2.2	Secondary stock solution	4
5.2.3	Working solutions	4
5.3	Sample preparation	4
5.3.1	General	4
5.3.2	SPE clean-up	5
5.3.3	Alternative sample preparation for samples non-dispersible in water (DCM clean-up)	5
6	Procedure	5
6.1	General	5
6.2	Chromatographic conditions	5
6.3	Set-up of the reaction system	6
7	Calculation of results	6
7.1	Calibration curve	6
7.2	Experimental conditions for the validity of the measurement	6
7.3	Calculation of concentrations	6
8	Test report	7
Annex A (informative) Examples of calibration curves and typical chromatograms		8
Annex B (normative) Photolysis and reaction of nitrite with Griess reagent to form the azo dye		11
Annex C (normative) Configuration of the post-column reactor system		12
Bibliography		13