



Scharlab s.l.
Tel. int.: +34-93-7151811
Email: lab@scharlau.com

CERTIFICATE OF ANALYSIS

Product: **N,N-Dimethylformamide, Multisolvant® HPLC grade** Batch 11554407
DI1072 ACS ISO UV-VIS Test date 16/02/2010
Shelf life 2/2015

Analysis	Batch value	Guaranteed value
assay (G.C.)	99.98 %	min. 99,9 %
identity (IR-spectrum)	passes test	passes test
density (20°/4°)	0.9487	0,948 - 0,949
appearance	clear	clear
colour (Hazen)	8	max. 10
acidity	0.0001 meq/g	max. 0,0005 meq/g
alkalinity	0.0001 meq/g	max. 0,003 meq/g
aluminium (Al)	0,00001 %	max. 0,00001 %
barium (Ba)	0,000001 %	max. 0,000001 %
boron (B)	0,000002 %	max. 0,000002 %
cadmium (Cd)	0,000001 %	max. 0,000001 %
calcium (Ca)	0,00003 %	max. 0,00003 %
chromium (Cr)	0,000002 %	max. 0,000002 %
cobalt (Co)	0,000002 %	max. 0,000002 %
copper (Cu)	0,000002 %	max. 0,000002 %
iron (Fe)	0,000002 %	max. 0,000002 %
lead (Pb)	0,00001 %	max. 0,00001 %
magnesium (Mg)	0,00001 %	max. 0,00001 %
manganese (Mn)	0,000001 %	max. 0,000001 %
nickel (Ni)	0,000002 %	max. 0,000002 %
tin (Sn)	0,00001 %	max. 0,00001 %
zinc (Zn)	0,000001 %	max. 0,000001 %
non-volatile matter	0,0002 %	max. 0,0002 %
water (K.F.)	0.03 %	max. 0,05 %
liquid chromatography suitability		
absorbance	passes test	passes test
min. transmission/max. absorbance in a 1,0 cm cell at		
wavelength:	T(%) A (AU)	T(%) A (AU)
268 nm	20 % 0,699 AU	20 % 0,699 AU
275 nm	50 % 0,301 AU	50 % 0,301 AU
290 nm	80 % 0,097 AU	80 % 0,097 AU
300 nm	90 % 0,046 AU	90 % 0,046 AU
330 nm	98 % 0,009 AU	98 % 0,009 AU
Microfiltered through membranes of pore diameter 0,22 µm		

This certificate does not release the user from the reception control .

This certificate is an electronic copy of the certificate available in our laboratory, and does not require signature

If you need further details, please call at our factory or contact our local distributor.

You can get a copy of any of our COA from our web site: www.scharlau.com