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CERTIFICATE OF ANALYSIS

Product: **N,N-Dimethylformamide, Multisolvant® HPLC grade** Batch 11731907
DI1072 ACS ISO UV-VIS Test date 28/04/2010
Shelf life 4/2015

Analysis	Batch value	Guaranteed value
assay (G.C.)	99,99 %	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	0,0003 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.)	< 0,05 %	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	40 % 0,394 AU	20 % 0,699 AU
275 nm	76 % 0,117 AU	50 % 0,301 AU
290 nm	90 % 0,047 AU	80 % 0,097 AU
300 nm	94 % 0,026 AU	90 % 0,046 AU
330 nm	99 % 0,002 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

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