

08.07.2011
BASF ChemTrade GmbH
Industriestrasse 20
91593 Burgbernheim
+ 49 9843 9828 0

NICOTINAMIDE EP/USP & JP

Lot: 0909/1.

Article-no. 54916201
Kolli-no. 3729103
Batch-no. 11105021
Page 1 of 2

Test	Result	Unit	Specification
Appearance G1000001TA.2/1/CNGZ-4092.1	Crystalline powder	-----	Crystalline powder
Colour G1000001TA.2/1/CNGZ-4092.1	White	-----	White
Assay (HPLC) G1-00612PV.4/1/CNGZ-4244.1	100.0	%w/w	99.0 - 101.0
Nicotinic acid (HPLC) G1-00612PV.4/1/CNGZ-4244.1	<0.03	%w/w	<=0.10
3-Cyanopyridine (HPLC) G1-00612PV.4/1/CNGZ-4244.1	<0.03	%w/w	<=0.10
Impurity, largest unknown (HPLC) G1-00612PV.4/1/CNGZ-4244.1	<0.03	%w/w	<=0.10
Impurities, sum of (HPLC) G1-00612PV.4/1/CNGZ-4244.1	<0.0	%w/w	<1.0
Impurities II, sum of (HPLC) G1-00612PV.4/1/CNGZ-4244.1	<0.03	%w/w	-----
pH (5g / 100ml water, EP) G1-00612PS.3/1/CNGZ-4235.1	6.4	-----	6.0 - 7.5
Clarity of sol. (5g / 100ml water, EP) G1-00612PU.1/1/CNGZ-4233.1	0.03	NTU	<=3.00
Colour values (CIELAB) L* G1-00612PX.2/1/CNGZ-4234.1	100.1	-----	90.0 - 101.0
Colour values (CIELAB) a* G1-00612PX.2/1/CNGZ-4234.1	0.0	-----	-10.0 - 10.0
Colour values (CIELAB) b* G1-00612PX.2/1/CNGZ-4234.1	0.2	-----	-10.0 - 10.0
Colour of sol. (5g/100ml water, calc.) BY G1-00612PX.2/1/CNGZ-4234.1	>7	-----	>=7
Water (KF) G1-00612PH.4/1/CNGZ-4097.1	0.04	%w/w	<0.10
Melt. range, start. point (opt. transm.) G1-00612PG.2/1/CNGZ-4096.1	129.2	°C	128.0 - 131.0

The aforementioned data shall constitute the agreed contractual quality of the product at the time of passing of risk. SELLER MAKES NO WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, BY FACT OR LAW, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

NICOTINAMIDE EP/USP & JP

Article-no. 54916201

Kolli-no. 3729103

Batch-no. 11105021

Page 2 of 2

Test	Result	Unit	Specification
Melt. range, end. point (opt. transm.) G1-00612PG.2/1/CNGZ-4096.1	129.8	°C	128.0 - 131.0
Particle size fraction $\geq$ 50 μ m G1-00612PF.2/1/CNGZ-4095.1	100	%w/w	$\geq$ 90
Particle size fraction $\geq$ 250 μ m G1-00612PF.2/1/CNGZ-4095.1	1	%w/w	$\leq$ 8
Sulphated ash (2h, 600°C, USP/EP) G1-00612PI.3/1/CNGZ-4098.1	<0.05	%w/w	≤ 0.10
Heavy metals (USP, method II) G1-00612QB.1/1/CNGZ-4099.1	<20	mg/kg	≤ 20
Chloride (limit test, JP) G1-00612PK.2/1/CNGZ-4236.1	<70	mg/kg	≤ 70
Sulfate (limit test, JP) G1-00612PZ.1/1/CNGZ-4237.1	<190	mg/kg	≤ 190
Readily carbonizable substances (USP/JP) G1-00612PM.2/1/CNGZ-4238.1	Matching Fluid A	-----	Matching Fluid A
Identification (UV, USP/EP/JP) G1-00612PP.2/1/CNGZ-4100.1	Corresponds	-----	Corresponds
Identification (NaOH, EP/JP) G1-00612QT.1/1/CNGZ-4101.1	Corresponds	-----	Corresponds
Identification (IR, USP/EP/JP) G1-00612PW.2/1/CNGZ-4245.1	Corresponds	-----	Corresponds
Loss on drying (EP) G1-00612QX.1/1/CNGZ-4247.4	0.0	%w/w	≤ 0.5

Comment

Conforms to current requir. of EP, USP, FCC; Pb<2ppm, checked periodically; Residual solvents (USP<467>):conforms, solvents not used.

Production date: 05/2011

Best before: 05/2014