

Origin: TK-SAN GROUP
NL

Analysis report

May 12. 2011

Name Herbal Cigarettes 2011
Description Herbal cigarettes
Packing hardbox
Date of delivery May 04. 2011
Quantity 200 cigarettes
Analysis-No. 110504 / 01
Date of analysis May 10.-12. 2011

Order

Determination of total and nicotine-free dry particulate matter,
according to ISO 4387 and norms mentioned there
Determination of nicotine content in smoke condensates according to ISO 10315
Determination of carbon monoxide (CO) in vapour phase of smoke according to ISO 8454

ASL -method

QE-16/VA-01-PA-K01,K04

Results

Length of cigarettes	mean:	85,6	mm
Length of filter	mean:	23,7	mm
Length of tipping	mean:	34,6	mm
Diameter	mean:	7,8	mm

Type of smoking machine Smoking machine RM200 A (Borgwaldt -KC) smoke trap
" Central Filter 92 mm "

Number of cigarettes smoked 3 smoking runs 20 cigarettes each
total 60 cigarettes

Cigarette weight	mean:	1404	mg
Butt length		38	mm
Puff number	mean:	11,4	
Total particulate matter (TPM)	mean:	25	mg/cig.
Nicotine in TPM	mean:	n.d.*	mg/cig.
Nicotine-free dry PM	mean:	22	mg/cig.
Carbon monoxide	mean:	24	mg/cig.

Smoke analysis**Analysis No.: 110504 / 01****Test atmosphere**

Temperature °C	22,0
Relative humidity %	60,2
Pressure kPa	102,0
VT cm/sec	19,6

Smoking runs**1 2 3****Test results**

Cigarette weight	mg/cig.	1402	1392	1417
Number of cigarettes smoked		20	20	20
Puff number		11,48	11,28	11,43
Total particulate matter (TPM)	mg/cig.	25,6	25,5	25,2
Water content	mg/cig.	4,01	3,65	3,85
Nicotine in TPM	mg/cig.	n.d.*	n.d.*	n.d.*
Nicotine-free dry PM	mg/cig.	21,6	21,8	21,3
Carbon monoxide	mg/cig.	24,1	24,0	24,2

*** not detected, detection limit 0,1 mg / cigarette**

Test results refer only to the mentioned test samples. Sampling was carried out by customers.
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**KG ASL-Analytik Service Labor GmbH & Co.
i.V.****Dr. Thomas Golz**
(Head of Laboratory)