



**IMPERIAL TOBACCO NEW ZEALAND**  
124-130 Richmond Street, PO Box 39-400,  
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CONFIDENTIAL

30 January 2019

The Director General of Health  
Ministry of Health  
P O Box 5013  
WELLINGTON

**By Email**

Dear Sir

Enclosed please find the 2018 Calendar year returns for Imperial Tobacco New Zealand with reference to the Smoke-Free Environments Regulations 2017, Schedule 7.

Yours faithfully,  
IMPERIAL TOBACCO NEW ZEALAND

A handwritten signature in blue ink, appearing to read "Louise Evans McDonald".

Louise Evans McDonald  
CORPORATE AFFAIRS MANAGER

Encl

Form of Return – Schedule 7  
Commercially of Confidence

SMOKE-FREE ENVIRONMENTS REGULATIONS 2017

**Manufacturer or Importer:** IMPERIAL TOBACCO NEW ZEALAND  
("the Company")

**Calendar Year:** 2018

a) Tobacco Weight by Product Class:

Cigarettes	238,980	Kg
Cigarette Tobacco	108,979	Kg

b) Weight of Additives in Total by Product Class:

Cigarettes	70	Kg
Cigarette Tobacco	16,115	Kg

c) List of additives and quantities not exceeded for each brand and brand variants in this return:

See attached Schedule A. Schedule A has been compiled as set out in the attached copy Legal Firm Certificate.

It is declared based on the copies of Certificates attached to Schedule A that:

All additives used in tobacco in the brands and brand variants in the Calendar Year have been listed in Schedule A.

No additive has been named for inclusion in Schedule A unless that additive was used in such tobacco products.

No additive was used in the Company's brands and brand variants in excess of the "Quantity not exceeded" as specified in Schedule A.

I **LOUISE EVANS McDONALD**, Corporate Affairs Manager Imperial Tobacco New Zealand, hereby certify that the information contained in and annexed to this Return is correct for the purposes of the Smoke Free Environments Regulations 2017, subject to the qualifications stated.

Dated at Petone this 30<sup>th</sup> day of January 2019.



## Cigarettes (NZ Domestic)

Brand	Brand variant	Pack size of brand variant (in sticks)	Volume of cigarettes released for sale (000s sticks)	Recommended retail price per pack (in dollars)
Camel	Filter	20	2041.62	28.90
Horizon	Red	25	7429.25	29.90
Horizon	Red	30	1193.04	41.50
Horizon	Red	20	17621.92	23.90
Horizon	Red	40	480.4	52.00
Horizon	Red 2 x 20s	40	1250.28	52.00
Horizon	Mellow Blue	25	4174.3	29.90
Horizon	Mellow Blue	30	842.19	41.50
Horizon	Mellow Blue	20	5866.98	23.90
Horizon	Mellow Blue	40	270.28	52.00
Horizon	Mellow Blue 2 x 20s	40	570.84	52.00
JPS	Menthol	30	142.32	39.50
JPS	Menthol	20	2669.86	26.00
JPS	Menthol	25	1323.05	31.50
JPS	Menthol	40	191.4	49.50
JPS	Menthol 2 x 20s	40	853.16	48.50
Peter Stuyvesant	Filter Red	20	1931.5	28.90
Peter Stuyvesant	Filter Red	25	865.67	31.50
Peter Stuyvesant	Classic Blue	20	5994.26	28.90
Peter Stuyvesant	Classic Blue	25	1055.75	31.50
Peter Stuyvesant	Fine Gold	20	448.4	28.90
West	Red	30	5025.78	37.50
West	Red	20	120609.52	24.50
West	Red	25	46744.9	29.90
Horizon	Menthol	25	3511.25	29.90
Horizon	Menthol	30	851.22	41.50
Horizon	Menthol	20	6320.74	23.90
Horizon	Menthol	40	183.44	52.00
Horizon	Menthol 2 x 20s	40	518.88	52.00
JPS	Red	30	2658.54	39.50
JPS	Red	25	18112.1	31.50
JPS	Red	20	27836.04	26.00
JPS	Red	40	1406.6	49.50
JPS	Red 2 x 20s	40	5201.64	48.50
JPS	Blue	30	367.62	39.50
JPS	Blue	25	2983.8	31.50
JPS	Blue	20	9311.98	26.00
JPS	Blue	40	317.32	49.50
JPS	Blue 2 x 20s	40	1729.52	48.50
JPS	Long Red	20	4464.68	25.00
JPS	Long Blue	20	659.02	25.00
West	Blue	20	9344.3	24.50
West	Blue	25	4282.6	29.90
West	Menthol	20	7780.94	24.50
West	Menthol	25	3742.97	29.90
Misc stock withdrawals from market			-218.32	

## Cigarettes (NZ Duty Free)

Brand	Brand variant	Pack size of brand variant (in sticks)	Volume of cigarettes released for sale (000s sticks)	Recommended retail price per pack (in dollars)
DF - Camel 20	Filter	20	71.4	11.50
DF - Horizon	Red	25	300.07	10.50
DF - Horizon	Menthol	25	328.97	10.50
DF - Horizon	Mellow Blue	25	241.65	10.50
DF - Peter Stuyvesant	Classic Blue	25	39.3	15.00
DF - Peter Stuyvesant	Filter Red	25	29.5	15.00
DF - Peter Stuyvesant	Classic Blue	20	64.4	10.90
DF - Peter Stuyvesant	Filter Red	20	30.84	10.90
DF - Peter Stuyvesant	Fine	20	26.8	10.90
DF - JPS	Menthol	20	198.6	9.30
DF - JPS	Red	20	349.8	9.30
DF - JPS	Blue	20	324.2	9.30
DF - JPS	Menthol	40	17.8	20.00
DF - JPS	Red	40	19.24	20.00
DF - JPS	Blue	40	16.92	20.00
DF - West	Red	20	264.6	7.90
DF - West	Blue	20	111.54	7.90
Misc stock withdrawals from market			-0.74	

## Roll Your Own Tobacco (NZ Domestic)

Brand	Brand variant	Pack size of brand variant (in grams)	Volume RYO tobacco released for sale (in kg)	Recommended retail price (in dollars)
Riverstone	Premium Rum Blend	30g	49169.82	53.50
Riverstone	Premium Rum Blend	40g	1468.92	71.50
Riverstone	Premium Rum Blend	50g	19239.45	86.00
JPS	Red	30g	12974.76	53.50
JPS	Red	40g	95.32	73.50
JPS	Red	50g	4254.4	84.50
Horizon	Mellow Blue	30g	1787.88	56.50
Horizon	Mellow Blue	40g	67.76	74.90
Horizon	Menthol	30g	4259.4	56.50
Horizon	Menthol	40g	18.4	74.90
Horizon	Menthol	50g	1123.45	92.00
Horizon	Red	30g	4594.89	56.50
Horizon	Red	40g	29.16	74.90
Horizon	Red	50g	947.95	92.00
Pocket Edition	Regular	30g	4851.66	57.90
Pocket Edition	Regular	50g	2138.85	92.90
Drum Reserve	Captains Rum	30g	7676.59	50.00
Drum	Original	30g	2368.23	58.40
Drum	Original	50g	1265.5	93.90
Drum	Blue	30g	909.42	58.40
Drum	Blue	50g	423.7	93.90
JPS	Blue	30g	1742.97	53.50
JPS	Menthol	30g	4380.87	53.50
JPS	Red Plus	30g	5194.68	50.00
Misc stock withdrawals from market			-2.52	

## Roll Your Own Tobacco (NZ Duty Free)

Brand	Brand variant	Pack size of brand variant (in grams)	Volume RYO tobacco released for sale (in kg)	Recommended retail price (in dollars)
Riverstone	Premium Rum Blend	50g	642.65	29.00
JPS	Red	50g	304	31.00
Horizon	Menthol	50g	238.5	35.00
Horizon	Red	50g	176.6	35.00
Pocket Edition	Regular	50g	164.25	39.00
Drum	Original	50g	152.5	39.00
Drum	Blue	50g	109.65	39.00

Form of Return – Schedule 7  
Commercially of Confidence

## Schedule A

**ADDITIVES LIST  
CIGARETTES**

**LEGAL FIRM CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

The Law Firm of Covington & Burling LLP hereby certifies as follows:

1. The attached list of cigarettes additives has been compiled from cigarettes additive lists supplied by the Participating Companies.
2. The Participating Companies for the cigarettes additives list are:
  - a. British American Tobacco
  - b. Imperial Tobacco
  - c. JT International
3. All of the cigarettes additives listed by any Participating Company are shown on the attached list.
4. A copy of the certificate which accompanied the cigarettes additives list of each Participating Company is annexed to the attached cigarettes additives list.
5. In the attached cigarettes additives list, the "Quantity Not Exceeded" is the highest "Quantity Not Exceeded" shown by any Participating Company in its cigarettes additives list.

DATED this 15<sup>Th</sup> day of January, 2019.

Clara Day  
for Covington & Burling LLP

## **CIGARETTES**

### **Ingredients in Cigarettes produced by British American Tobacco, Imperial Tobacco, and JTI, and sold in New Zealand in 2018**

<b>Prefix</b>	<b>Component Name</b>	<b>Quantity Not Exceeded (%)</b>
	Water	12.8000
	Sugars/Sugar, Invert	3.6650
	Glycerol	2.0720
	Propylene Glycol	1.7712
L-	Menthol	0.9228
	Calcium Carbonate	0.5672
	Cocoa Extract, Mass, Shells, Powder	0.4985
	Cocoa Powder	0.4930
	Licorice Extract, Root Extract, Powder, Fluid	0.3563
	Cellulose	0.3545
	Carob Bean Extract, Powder, Oleoresin	0.2590
	Prune Extract and/or Plum Extract, Juice, Concentrate	0.2074
	Fenugreek Extract, Oil, Oleoresin	0.0250
	Molasses, Molasses Extract, Essence	0.0250
	Acetic Acid	0.0100
	Apricot Extract	0.0100
	Balsam Peru Oil, Resinoid, Oleoresin	0.0100
	Cocoa Extract	0.0100
	Ethyl Acetate	0.0100
	Ethyl Butyrate	0.0100
	Fig Extract	0.0100
	Guava Extract	0.0100
	Phenylcarbinol	0.0100
	Piperonal	0.0100
	Raisin Extract, Juice, Concentrate	0.0100



	Sugar Cane Syrup	0.0100
	Vanilla Extract and/or Oleoresin	0.0100
	Vanillin	0.0100
	Benzoin Gum Sumatra, Benzoin Resinoid and/or Resin Extract	0.0010
	Benzyl Carbinol	0.0010
n-	Butyric Acid	0.0010
	Cane Sugar Extract	0.0010
	Caramel and/or Caramel Color	0.0010
	Citral	0.0010
	Coffee Extract	0.0010
	Coriander Seed Oil and/or Extract	0.0010
delta-	Decalactone	0.0010
	Ethyl Hexanoate	0.0010
	Ethyl Maltol	0.0010
	Ethyl Phenylacetate	0.0010
	Ethyl Propionate	0.0010
	Ethyl Vanillin	0.0010
	Eucalyptol	0.0010
	Isoamyl Acetate	0.0010
	Isovaleric Acid	0.0010
	Maltol	0.0010
para-	Methoxy Benzaldehyde	0.0010
	Methyl Cyclopentenolone	0.0010
	Methyl Salicylate	0.0010
	Phenethyl Phenylacetate	0.0010
	Spearmint Oil	0.0010
2,3,5,6-	Tetramethylpyrazine	0.0010
	Valerian Root Oil	0.0010

4-	(2,6,6-Trimethylcyclohex-1-Enyl)But-2-En-4-One (Beta-Damascone)	0.0001
4-	(2,6,6-Trimethylcyclohexa-1,3-Dienyl)But-2-En-4-One (Beta-Damascenone)	0.0001
	Acetanisole	0.0001
2-	Acetylpyrazine	0.0001
	Amyl Butyrate	0.0001
trans-	Anethole	0.0001
	Benzaldehyde	0.0001
	Benzyl Benzoate	0.0001
	Cardamom Seed Oil	0.0001
	Cassia Bark Oil	0.0001
	Celery, Celery Seed Extract and/or Oil	0.0001
	Citric Acid	0.0001
	Clary Sage Oil	0.0001
	Davana Oil	0.0001
gamma-	Decalactone	0.0001
	Decanoic Acid	0.0001
4,5-	Dimethyl-3-Hydroxy-2,5-Dihydrofuranone	0.0001
3,7-	Dimethyl-6-Octenoic Acid	0.0001
2,5-	Dimethylpyrazine	0.0001
	Ethyl 10-Undecenoate	0.0001
	Ethyl 2-Methylbutyrate	0.0001
	Ethyl Isovalerate	0.0001
	Ethyl Lactate	0.0001
	Ethyl Oenanthate	0.0001
	Ethyl Palmitate	0.0001
	Ethyl Trans-2-Butenoate	0.0001
5-	Ethyl-3-Hydroxy-4-Methyl-2(5H)-Furanone	0.0001
	Gentian Root Extract	0.0001

	Geraniol	0.0001
	Ginger Oil	0.0001
	Guaiacol	0.0001
2-	Heptanone	0.0001
	Hexanoic Acid	0.0001
	Hexyl Acetate	0.0001
beta-	Ionone	0.0001
alpha-	Irone	0.0001
	Isoamyl Isovalerate	0.0001
	Isoamyl Phenylacetate	0.0001
	Isobutyric Acid	0.0001
	Jasmine Absolute	0.0001
	Labdanum Extract, Oil, Oleoresin	0.0001
	Linalyl Acetate	0.0001
	Lovage Extract and/or Oil	0.0001
	Mace Oil	0.0001
	Methyl 2-Pyrrolyl Ketone	0.0001
4-	Methylacetophenone	0.0001
gamma-	Nonalactone	0.0001
	Nutmeg Oil	0.0001
	Orange Oil, Distilled	0.0001
	Palmitic Acid	0.0001
	Peppermint Oil	0.0001
	Phenylacetic Acid	0.0001
	Propenylguaethol	0.0001
	Propyl Acetate	0.0001
	Rose Extract and/or Oil	0.0001
	Tea Extract and/or Powder	0.0001
	Tomato Extract	0.0001

2-	Tridecanone	0.0001
2,3,5-	Trimethylpyrazine	0.0001
gamma-	Undecalactone	0.0001
	Veratraldehyde	0.0001
	Vetiver Oil	0.0001
	Carbon Dioxide	0.0000
	Ethyl Alcohol	0.0000
	Nitrogen	0.0000

**ADDITIVES LIST**

**[Cigarettes]**

**PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

I, Dominic Turner, Regional Product Manager-Aspac, Global R&D, BAT Aspac Service Centre Sdn Bhd hereby certifies in respect of the Company's attached product class list of additives that:

- (a) All additives which have been or will be used in tobacco in the Company's brands in the product class for sale in New Zealand have been listed.
- (b) The Company has not included in the list any additive which was not or will not be used in its brands in the product class for sale in New Zealand.
- (c) No additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company's list for that product class.

DATED this 15<sup>th</sup> day of JANUARY, 2019.



\_\_\_\_\_  
Dominic Turner

**ADDITIVES LIST**

**Cigarette**

**PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

Mr Jon Davis, Head of Product Regulatory Compliance on Behalf of Imperial Tobacco New Zealand (the "Company") hereby certifies in respect of the Company's attached product class list of additives that:

- (d) All additives which have been or will be used in tobacco in the Company's brands in the product class for sale in New Zealand have been listed.
- (e) The Company has not included in the list any additive which was not or will not be used in its brands in the product class for sale in New Zealand.
- (f) No additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company's list for that product class.

DATED this 2<sup>ND</sup> day of JANUARY, 2019.

Jon Davis





**ADDITIVES LIST**

**CIGARETTES**

**PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

I, Jochen Gorges, SRA Reporting & Systems Vice President of JT International Germany GmbH, Diedenhofener Str. 30, D-54294 Trier, Germany (the "Company"), hereby certify in respect of the Company's attached product class list of additives that:

- (a) All additives which have been or will be used in tobacco in the Company's brands in the product class for sale in New Zealand have been listed.
- (b) The Company has not included in the list any additive which was not or will not be used in its brands in the product class for sale in New Zealand.
- (c) No additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company's list for that product class.

Dated at Trier, Germany this 03rd day of January 2019

A handwritten signature in black ink, appearing to read 'Jochen Gorges', written over a horizontal line.

*Jochen Gorges*  
*SRA Reporting & Systems*  
*Vice President*

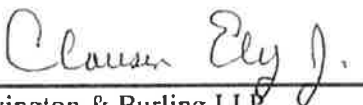
**ADDITIVES LIST  
CIGARETTE TOBACCO**

**LEGAL FIRM CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

The Law Firm of Covington & Burling LLP hereby certifies as follows:

1. The attached list of cigarette tobacco additives has been compiled from cigarette tobacco additive lists supplied by the Participating Companies.
2. The Participating Companies for the cigarette tobacco additives list are:
  - a. British American Tobacco
  - b. Imperial Tobacco
  - c. Scandinavian Tobacco Group
3. All of the cigarette tobacco additives listed by any Participating Company are shown on the attached list.
4. A copy of the certificate which accompanied the cigarette tobacco additives list of each Participating Company is annexed to the attached cigarette tobacco additives list.
5. In the attached cigarette tobacco additives list, the "Quantity Not Exceeded" is the highest "Quantity Not Exceeded" shown by any Participating Company in its cigarette tobacco additives list.

DATED this 15<sup>th</sup> day of January, 2019.

  
\_\_\_\_\_  
for Covington & Burling LLP



## **CIGARETTE TOBACCO**

**Ingredients in Cigarette Tobacco produced by British American Tobacco, Imperial Tobacco, and Scandinavian Tobacco Group, and sold in New Zealand in 2018**

<b>Prefix</b>	<b>Component Name</b>	<b>Quantity Not Exceeded (%)</b>
	Water	20.0000
	Propylene Glycol	5.0286
	Glycerol	4.0000
	Sugar, Invert	3.3000
	Cellulose Fibre	1.7357
L-	Menthol	1.7000
	Ethanol	1.1000
	Acetic Acid	0.7900
	Rum, White	0.3508
	Sodium Benzoate	0.3400
	Potassium Sorbate	0.3010
	Cocoa Powder	0.2276
	Licorice Extract, Powder	0.2276
	Vanillin	0.2156
	Lactic Acid	0.1736
	Guar Gum	0.1447
	Carob Bean Extract	0.1338
	Cocoa and Cocoa Products	0.0670
	Spearmint Oil	0.0669
	Apricot Extract	0.0250
	Benzoic acid	0.0250
	Ethyl Acetate	0.0250
	Ethyl Butyrate	0.0250

	Piperonal	0.0250
	Rum Jamaica	0.0250
	Vanilla Extract	0.0250
	Acetoin	0.0100
	Benzaldehyde	0.0100
	Benzoin Gum Sumatra	0.0100
	Benzyl Alcohol	0.0100
	Benzyl Benzoate	0.0100
n-	Butyric Acid	0.0100
	Cocoa Extract	0.0100
	Coffee Extract	0.0100
	Ethyl Maltol	0.0100
	Ethyl Propionate	0.0100
	Ethyl Vanillin	0.0100
	Fig Juice Concentrate and/or Extract	0.0100
	Geraniol	0.0100
	Glucose Syrup	0.0100
	Isobutanol	0.0100
	Isovaleric Acid	0.0100
	Lovage Extract	0.0100
	Maltol	0.0100
para-	Methoxy Benzaldehyde	0.0100
	Methyl Cyclopentenolone	0.0100
	Methyl Ethyl Ketone	0.0100
gamma-	Nonalactone	0.0100
	Peppermint Oil	0.0100
	Phenylcarbinol	0.0100
	Propyl Formate	0.0100
	Raisin Extract and/or Concentrate	0.0100

	Valerian Root Oil	0.0100
	Acetophenone	0.0010
n-	Amyl Butyrate	0.0010
	Balsam Oil, Peru	0.0010
	Cane Sugar Extract	0.0010
	Caramel	0.0010
	Citral	0.0010
delta-	Decalactone	0.0010
	Dextrose	0.0010
para-	Dimethoxybenzene	0.0010
gamma-	Dodecalactone	0.0010
	Ethyl Hexanoate	0.0010
	Ethyl Lactate	0.0010
	Ethyl Palmitate	0.0010
	Ethyl Phenylacetate	0.0010
	Ethyl Trans-2-Butenoate	0.0010
	Ethyl-2-Methyl Butyrate	0.0010
	Fenugreek Extract	0.0010
gamma-	Heptalactone	0.0010
2-	Heptanone	0.0010
gamma-	Hexalactone	0.0010
	Hexyl Acetate	0.0010
	Isoamyl Acetate	0.0010
	Isoamyl Butyrate	0.0010
	Isoamyl Phenylacetate	0.0010
	Isobutyl Phenylacetate	0.0010
	Isobutyraldehyde	0.0010
	Isobutyric Acid	0.0010
	Linalool	0.0010

4-	Methyl Acetophenone	0.0010
alpha-	Methyl Benzyl Acetate	0.0010
3-	Methyl Butyraldehyde	0.0010
2-	Methyl Butyric Acid	0.0010
	Nutmeg Oil	0.0010
	Salicylaldehyde	0.0010
para-	Tolyl Aldehyde	0.0010
gamma-	Valerolactone	0.0010
	Vanilla Oleoresin	0.0010
	Veratraldehyde	0.0010
	Whisky	0.0010
	Wine	0.0010
	Ylang Ylang Oil	0.0010
2-	Acetylpyrazine	0.0001
	Acetylthiazole	0.0001
	Ambrox	0.0001
	Benzyl Carbinol	0.0001
	Benzyl Cinnamate	0.0001
	Cardamom Seed Oil	0.0001
beta-	Caryophyllene	0.0001
	Cinnamaldehyde	0.0001
	Cinnamon Bark Oil	0.0001
	Cinnamyl Propionate	0.0001
	Coriander Oil	0.0001
beta-	Damascenone	0.0001
beta-	Damascone	0.0001
	Davana Oil	0.0001
gamma-	Decalactone	0.0001
2,3-	Diethylpyrazine	0.0001

2,6-	Dimethoxyphenol	0.0001
3,4-	Dimethyl-1,2-Cyclopentadione	0.0001
3-(5- or 6-)-	Dimethyl-2-Ethylpyrazine	0.0001
2,5-	Dimethylpyrazine	0.0001
	Ethyl Acetoacetate	0.0001
	Ethyl Decanoate	0.0001
	Ethyl Heptanoate	0.0001
	Ethyl Laurate	0.0001
	Ethyl Octanoate	0.0001
2-	Ethyl-3,(5 or 6)-Dimethylpyrazine	0.0001
	Guaiacol	0.0001
cis-3-	Hexen-1-ol	0.0001
cis-3-	Hexen-1-yl Acetate	0.0001
4-	Hydroxy-2,5-Dimethyl-3(2H)-Furanone	0.0001
4-	Hydroxy-3-Pentenoic Acid Lactone	0.0001
beta-	Ionone	0.0001
	Lemon Oil	0.0001
d-	Limonene	0.0001
2-	Methoxy-4-Methylphenol	0.0001
2-	Methoxy-4-Vinylphenol	0.0001
para-	Methyl Anisole	0.0001
6-	Methyl-5-Hepten-2-One	0.0001
4-	Nonanolide	0.0001
gamma-	Octalactone	0.0001
	Orange Oil, Cold Pressed, Sweet (Citrus Sinensis (L))	0.0001
	Pepper Oil, Black	0.0001
	Phenyl Acetaldehyde	0.0001
3-	Phenyl-2-Propen-1-O1	0.0001
	Phenylacetic Acid	0.0001

	Plum Juice/Concentrate	0.0001
	Propionic Acid	0.0001
	Storax	0.0001
	Styrax Oil	0.0001
5,6,7,8-	Tetrahydroquinoxaline	0.0001
2,3,5,6-	Tetramethylpyrazine	0.0001
	Tolu Balsam Extract and/or Gum	0.0001
para-	Tolyl Acetate	0.0001
	Triacetin	0.0001
2,3,5-	Trimethyl Pyrazine	0.0001
	Trimethylcyclohexenedione	0.0001
gamma-	Undecalactone	0.0001
	Valeric Acid	0.0001
	Nitrogen	0.0000

**ADDITIVES LIST**  
**[Cigarette Tobacco]**

**PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

I, Dominic Turner, Regional Product Manager-Aspac, Global R&D BAT Aspac Service Centre Sdn Bhd hereby certifies in respect of the Company's attached product class list of additives that:

- (a) All additives which have been or will be used in tobacco in the Company's brands in the product class for sale in New Zealand have been listed.
- (b) The Company has not included in the list any additive which was not or will not be used in its brands in the product class for sale in New Zealand.
- (c) No additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company's list for that product class.

DATED this 15<sup>th</sup> day of JANUARY, 2019.



\_\_\_\_\_  
Dominic Turner

**ADDITIVES LIST**  
**Cigarette Tobacco**

**PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR TO 31 DECEMBER 2018**

Mr Jon Davis, Head of Product Regulatory Compliance on Behalf of Imperial Tobacco New Zealand (the "Company") hereby certifies in respect of the Company's attached product class list of additives that:

- (a) All additives which have been or will be used in tobacco in the Company's brands in the product class for sale in New Zealand have been listed.
- (b) The Company has not included in the list any additive which was not or will not be used in its brands in the product class for sale in New Zealand.
- (c) No additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company's list for that product class.

DATED this 2nd day of January, 2019.

\_\_\_\_\_  
Jon Davis





ADDITIVES LIST

CIGARETTE TOBACCO

PARTICIPATING COMPANY CERTIFICATE  
IN RESPECT OF CALENDAR YEAR 1 JANUARY TO 31 DECEMBER 2019.

I, **Vincent Crepy, Executive Vice President** of Scandinavian Tobacco Group hereby certifies in respect of the Company's attached product class list of additives that:

- (a) all additives which have been or will be used in the tobacco in the Company's brand in the product class for sale in New Zealand have been listed;
- (b) the Company has not included in the list any additive, which has not or will not be used in its brand in the product class for sale in New Zealand;
- (c) no additive has been or will be used in the product class in excess of the "Quantity not exceeded" as specified in the Company' list for that product class.

January 3, 2019.





**IMPERIAL TOBACCO NEW ZEALAND**  
124-130 Richmond Street, PO Box 39-400,  
Petone, Wellington, New Zealand  
Tel: +64 (0)4 587 1500  
Fax: +64 (0)4 587 1501  
email: Imperial@nz.imptob.com

CONFIDENTIAL

30 January 2019

The Director General of Health  
Ministry of Health  
P O Box 5013  
WELLINGTON

Dear Sir

Enclosed please find the Schedule 8 Form of Return for Imperial Tobacco New Zealand, with reference to the Smoke-Free Environments Regulations 2017, of tests conducted by this Manufacturer for cigarettes covering the 2018 Calendar year.

I hereby certify that the information contained in and annexed to this return is correct for the purposes of the Smoke-Free Environments Regulations 2007.

Yours faithfully  
IMPERIAL TOBACCO NEW ZEALAND

A handwritten signature in blue ink, appearing to read 'Louise Evans McDonald'.

Louise Evans McDonald  
Corporate Affairs Manager

ENCL.



**Cigarette brands made by IMPERIAL TOBACCO  
to be commercialized in New Zealand**

**Smoke emissions. Test Results**

Brand name	Measured values			Analyses made in
	NFDPM (mg/cig.)	Smoke nicotine (mg/cig.)	Carbon monoxide (mg/cig.)	
Horizon Mellow KS	9	0.8	10	(1)
Horizon Ment KS	11	1.0	13	(1)
Horizon Red KS	11	0.9	13	(1)
JPS Blue KS	9	0.8	10	(1)
JPS Green KS	11	1.0	12	(1)
JPS Red KS	11	1.0	13	(1)
Peter Stuyvesant Classic KS	9	0.9	9	(1)
Peter Stuyvesant Filter KS	11	1.0	13	(1)
West Ment KS	11	0.9	13	(1)
West Blue KS	9	0.9	10	(1)
West Red KS	11	1.0	13	(1)
P. Stuyv Fine Gold KS	3	0.3	4	(1)
JPS Blue KS	10	0.9	10	(1)
JPS Red KS	10	0.9	10	(1)

Date: 28th January 2018

The results in the above list have been obtained by the application of the following ISO standards:

- ISO 8243. Cigarettes. Sampling
- ISO 4387. Cigarettes. Determination of total and nicotine-free dry particulate matter using a routine analytical smoking machine
- ISO 10315. Cigarettes. Determination of nicotine in smoke condensates. Gas-chromatographic /
- ISO 10362-1. Cigarettes. Determination of water in smoke condensates. Part 1: Gas-chromatographic method
- ISO 8454. Cigarettes. Determination of carbon monoxide in the vapour phase of cigarette smoke NDIR method.

**Imperial Tobacco. List of Accredited Laboratories**

(1) Reemtsma Cigarettenfabriken GmbH  
 Albert-Einstein-Ring  
 22761 Hamburg  
 Germany

Deutsche Akkreditierungsstelle GmbH

Anlage zur Akkreditierungsurkunde D-PL-14465-01-00  
nach DIN EN ISO/IEC 17025:2005

**Gültig ab: 23.10.2018**

Ausstellungsdatum: 15.11.2018

Urkundeninhaber:

**Reemtsma Cigarettenfabriken Gesellschaft mit beschränkter Haftung**

an den Standorten

**Central Lab, Special Analytes Lab, Biological Laboratory und Physical Laboratory  
Albert-Einstein-Ring 7, 22761 Hamburg  
FCSA Lab  
Slachtedyk 28 A, NL-8501 ZA Joure, Niederlande**

Prüfungen in den Bereichen:

**chemische, physikalische und biologische Untersuchungen von Tabak, Tabakerzeugnissen, Rohmaterialien und Materialien zur Herstellung von Tabakerzeugnissen, Dämpfen/Aerosolen, Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen von Tabakerzeugnissen/elektronische Verdampfungsprodukte und Trägermaterialien basierend auf Cellulose und Cellulosederivaten; Probenahme von Zigaretten und Tabakerzeugnissen**

***Innerhalb der mit \* gekennzeichneten Prüfbereiche ist dem Prüflaboratorium, ohne dass es einer vorherigen Information und Zustimmung der DAkkS bedarf, die freie Auswahl von genormten oder ihnen gleichzusetzenden Prüfverfahren gestattet. Die aufgeführten Prüfverfahren sind beispielhaft.***

verwendete Abkürzungen: siehe letzte Seite



**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

<p>ISO 8454 2007-06 Amd. 1: 2009-10</p>	<p>Cigarettes - Determination of carbon monoxide in the vapour phase of cigarette smoke - NDIR method</p>
<p>ISO 15592-3 2008-12</p>	<p>Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 3: Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for determination of water and nicotine, and calculation of nicotine-free dry particulate matter</p>
<p>CORESTA Recommended Method No. 65 2010-06</p>	<p>Determination of total and nicotine-free dry particulate matter using a routine analytical cigar-smoking machine - Determination of total particulate matter and preparation for water and nicotine measurement</p>
<p>CORESTA Recommended Method No. 68 2010-01</p>	<p>Determination of carbon monoxide in the mainstream smoke of cigars by non-dispersive infrared analysis</p>
<p>Health Canada – Official Method T-115 2016-12</p>	<p>Determination of tar, water, nicotine and carbon monoxide in mainstream tobacco smoke</p>
<p>ASTM E 2187 2016-01</p>	<p>Standard test method for measuring the ignition strength of cigarettes</p>
<p>AS 4830 2007-03</p>	<p>Determination of the extinction propensity of cigarettes</p>
<p>ISO 12863 2010-09 Cor.1: 2011-02 Amd.1: 2016-07</p>	<p>Standard test method for assessing the ignition propensity of cigarettes</p>
<p>ISO 6488 2004-02 Cor.1: 2008-06</p>	<p>Tobacco and tobacco products - Determination of water content - Karl Fischer method</p>

**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

SOP M 420  
2018-04                      Tabak und Tabakerzeugnisse - Bestimmung von Feuchte und Asche mittels Thermo-gravimetrischer Methode (nur Feuchte akkreditiert)  
(Tobacco and tobacco products - Determination of moisture and ash using thermo-gravimetric-method; only moisture is accredited)

SOP 29  
2016-01                      Tabak und Tabakerzeugnisse - Stickstoffbestimmung nach Kjeldahl  
(Tobacco and tobacco products - Determination of Kjeldahl nitrogen)

**4            Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen sowie in deren Hauptstromrauch mittels Gaschromatographie (GC) mit konventionellen Detektoren (FID und WLD) \***

ISO 10315  
2013-03                      Cigarettes - Determination of nicotine in smoke condensates - Gas-chromatographic method

ISO 10362-1  
1999-12  
Amd. 1: 2011-07            Cigarettes - Determination of water in smoke condensates - Part 1: Gas-chromatographic method

CORESTA Recommended  
Method No. 66  
2005-11                      Determination of nicotine in the mainstream smoke of cigars by gas chromatographic analysis

CORESTA Recommended  
Method No. 67  
2005-11                      Determination of water in the mainstream smoke of cigars by gas chromatographic analysis

CORESTA Recommended  
Method No. 62  
2005-02                      Determination of nicotine in tobacco and tobacco products by gas chromatographic analysis

CORESTA Recommended  
Method No. 60  
2015-07                      Determination of 1,2-propylene glycol and glycerol in tobacco and tobacco products by gas chromatography

**5 Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen mittels Hochleistungsflüssigchromatographie (HPLC) mit konventionellen Detektoren (Brechungsindex- und UV/Vis-Detektor) \***

DIN 10371  
2001-01

Untersuchung von Tabak und Tabakerzeugnissen - Bestimmung des Glucose-, Fructose- und Saccharosegehaltes - Hochleistungsflüssigchromatographisches Verfahren  
(Determining the glucose, fructose and sucrose contents of tobacco and tobacco products by high-performance liquid chromatography)

DIN 10372  
2001-01

Untersuchung von Tabak und Tabakerzeugnissen - Bestimmung des Glycerol-, Propylenglycol- und Sorbitolgehaltes - Hochleistungsflüssigchromatographisches Verfahren  
(Determining the glycerol, propylene glycol and sorbitol contents of tobacco and tobacco products by high-performance liquid chromatography)

**6 Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch mittels Flüssigkeitschromatographie mit Massenspektrometrie-Kopplung**

SOP 25  
2015-05

Bestimmung von tabakspezifischen Nitrosaminen (TSNA) in Tabak, Tabakerzeugnissen und Rauchkondensaten - LC-MS/MS Verfahren  
(Determination of Tobacco Specific Nitrosamines (TSNA) in tobacco, tobacco products and smoke condensates - LC-MS/MS Method)

**7 Photometrische Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen mit Fließ- und Durchflussanalytik (CFA) \*\***

ISO 15152  
2003-04  
Amd. 1:2012-05

Tobacco - Determination of the content of total alkaloids as nicotine - Continuous-flow analysis method

SOP M 407  
2017-03

Tabak und Tabakerzeugnisse – Photometrische Bestimmung von Gesamtalkaloiden als Nikotin mittels kontinuierlichem Durchflussverfahren  
(Tobacco and tobacco products – Photometric determination of total alkaloids as nicotine using a continuous-flow analyzer)



SOP M 408  
2017-07

Tabak und Tabakerzeugnisse – Photometrische Bestimmung von Ammonium mittels kontinuierlichem Durchflussverfahren  
(Tobacco and tobacco products – Photometric determination of ammonium using a continuous-flow analyzer)

**8 Physikalische Untersuchungen von Tabak, Tabakerzeugnissen und Materialien zur Herstellung von Tabakerzeugnissen**

ISO 2971  
2013-04

Cigarettes and filter rods - Determination of nominal diameter - Method using a non-contact optical measuring apparatus

ISO 6565  
2015-12

Tobacco and tobacco products - Draw resistance of cigarettes and pressure drop of filter rods - Standard conditions and measurement

ISO 9512  
2002-06

Cigarettes - Determination of ventilation - Definitions and measurement principles

SOP E 006  
2018-05

Sodiline Bedienung - Bestimmung von Gewicht, Länge, Durchmesser, Zugwiderstand und Ventilation von Zigaretten und Filterstäben  
(Sodiline Operation - Determination of weight, length, diameter, pressure drop and ventilation of cigarettes and filter rods)

SOP E 007  
2018-05

Sodimat Bedienung - Bestimmung von Gewicht, Durchmesser, Zugwiderstand und Ventilation von Zigaretten und Filterstäben  
(Sodimat Operation - Determination of weight, diameter, pressure drop and ventilation of cigarettes and filter rods)

**Special Analytes Lab**

**1 Bestimmung von Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch mittels Gaschromatographie mit konventionellen Detektoren (ECD, FID, FPD, TEA und MSD) \*\***

IM 8  
2016-02

Bestimmung von Gasphasen Verbindungen im Hauptstromrauch von Tabakerzeugnissen; Gaschromatographische Methode  
(Determination of vapour phase compounds in mainstream smoke of tobacco products; Gaschromatographic method)

Anlage zur Akkreditierungsurkunde D-PL-14465-01-00

IM 9 2008-11	Bestimmung aromatischer Amine im Hauptstromrauch von Tabakerzeugnissen; Gaschromatographische Methode (Determination of aromatic amines in mainstream smoke of tobacco products; Gaschromatographic method)
IM 14 2008-06	Bestimmung von N- Nitrosodimethylamine (NDMA) in Tabak und Tabakerzeugnissen; Gaschromatographische Methode (Determination of N- Nitrosodimethylamine (NDMA) in tobacco and tobacco products by Gaschromatographic method)
IM 18 2015-05	Bestimmung von Pflanzenschutzmittel in Tabakerzeugnissen; Gaschromatographische Methode (basierend auf der DFG-Methode S19) (Determination of Plant Protection Products (PPP) in tobacco products; Gaschromatographic method; based on DFG-Method S 19)
IM 19 2016-04	Bestimmung von Nebenalkaloiden in Tabak und Tabakprodukten; Gaschromatographische Methode (Determination of minor alkaloids in tobacco, tobacco products and ingredients; Gaschromatographic method)
IM 26 2018-04	Bestimmung von Benzo(a)pyrene im Hauptstromrauch von Tabakerzeugnissen; GC Methode (Determination of benzo(a)pyrene in mainstream smoke of tobacco products; GC method)
IM 27 2018-04	Bestimmung von Benzo(a)pyrene in Tabak und Tabakprodukten; GC Methode (Determination of minor alkaloids in tobacco, tobacco products and ingredients; GC method)
<b>2</b>	<b>Bestimmung von Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch, Inhaltsstoffe für Tabakprodukte, auf Cellulose und Cellulosederivaten basierender Trägermaterialien mittels Hochleistungsflüssigchromatographie (HPLC) mit konventionellen Detektoren (DAD und FLD) **</b>
IM 5 2012-11	Bestimmung von Benzo(a)pyrene im Hauptstromrauch von Tabakerzeugnissen; HPLC Methode (Determination of benzo(a)pyrene in mainstream smoke of tobacco products; HPLC method)

**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

IM 6  
2014-05  
Bestimmung von Phenolen im Hauptstromrauch von Tabakerzeugnissen; HPLC Methode  
(Determination of phenolic compounds in mainstream smoke of tobacco products; HPLC method)

IM 7  
2012-09  
Bestimmung von Carbonylen im Hauptstromrauch von Tabakerzeugnissen; HPLC Methode  
(Determination of carbonyls in mainstream smoke of tobacco products; HPLC method)

IM 16  
2012-05  
Bestimmung von Konservierungsstoffen und Vanillin / Ethyl Vanillin in Tabak und Tabakerzeugnissen; HPLC Methode (basiert auf der DIN 10377)  
(Determination of Preservatives and Vanillin / Ethyl Vanillin in tobacco and tobacco products by high-performance liquid chromatography (HPLC); based of DIN 10377)

IM 20  
2015-02  
Bestimmung von Coffein in Trägermaterialien, die auf Cellulose und Cellulosederivaten basieren; HPLC Methode  
(Determination of caffeine in carrier materials based on cellulose and cellulose derivatives, HPLC method)

**3 Bestimmung von Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen in Tabak und Tabakerzeugnissen mittels Ionenchromatographie**

IM 24  
2016-01  
Bestimmung von organischen Säuren und anorganischen Anionen in Tabak und Tabakerzeugnissen; IC Methode  
(Determination of organic acids and inorganic anions in tobacco and tobacco products, IC method)

**4 Bestimmung von Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch, Inhaltsstoffe für Tabakprodukte, auf Cellulose und Cellulosederivaten basierender Trägermaterialien mittels Flüssigkeitschromatographie mit Massenspektrometrie-Kopplung \*\***

IM 11  
2018-04  
Bestimmung von tabakspezifischen Nitrosaminen (TSNA) im Hauptstromrauch von Tabakerzeugnissen; HPLC-MS/MS Methode  
(Determination of tobacco specific nitrosamines (TSNA) in mainstream smoke of tobacco products; HPLC-MS/MS method)

Anlage zur Akkreditierungsurkunde D-PL-14465-01-00

IM 17  
2013-11 Bestimmung von Pflanzenschutzmitteln in Tabakerzeugnissen;  
HPLC-MS/MS Methode  
(Determination of Plant Protection Products (PPP) in tobacco products; HPLC-MS/MS method)

IM 21  
2012-03 Bestimmung von tabakspezifischen Nitrosaminen (TSNA) in  
Tabak und Tabakerzeugnissen; HPLC-MS/MS Methode  
(Determination of Tobacco Specific Nitrosamines (TSNA) in tobacco and tobacco products; HPLC-MS/MS Method)

IM 23  
2015-12 Bestimmung von freiem und Gesamt-NNK in Tabak und  
Tabakprodukten, HPLC-MS/MS Methode  
(Determination of free and total NNK in tobacco and tobacco products; HPLC-MS/MS Method)

IM 25  
2018-04 Bestimmung von Carbonylen in Tabak und Tabakprodukten,  
HPLC-MS/MS Methode  
(Determination of carbonyls in tobacco and tobacco products;  
HPLC-MS/MS Method)

**5 Bestimmung von Inhalts- und Zusatzstoffen sowie Rückständen und Kontaminationen in Tabak und Tabakerzeugnissen, Inhaltsstoffe für Tabakerzeugnisse mittels induktiv gekoppelter Plasma-Emissionsspektrometrie (ICP-OES) \*\***

IM 12  
2016-01 Bestimmung von Calcium, Kalium, Magnesium und Natrium in  
Tabak und Tabakerzeugnissen; ICP-OES Methode  
(Determination of Calcium, Potassium, Magnesium and Sodium in tobacco and tobacco products by ICP-OES method)

IM 22  
2017-12 Bestimmung von Cadmium, Eisen, Arsen, Chrom, Nickel,  
Beryllium, Cobalt und Selen in Tabak und Tabakerzeugnissen;  
ICP-OES Methode  
(Determination of Cadmium, Lead, Arsenic, Chromium, Nickel,  
Beryllium, Cobalt and Selenium in tobacco and tobacco products;  
ICP-OES Method)

**6 Photometrische Bestimmung von Inhalts- und Zusatzstoffen sowie Bestandteilen und Kontaminationen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch mit Fließ- und Durchflussanalytik (CFA) \*\***

IM 13  
2016-11 Bestimmung von Ammoniak im Hauptstromrauch von Tabakerzeugnissen; Photometrische Methode (Determination of Ammonia in Mainstream Smoke of tobacco products; Photometric Method)

IM 15  
2016-11 Bestimmung von Nitrit im Hauptstromrauch von Tabakerzeugnissen; Photometrische Methode (Determination of Nitrite in tobacco and tobacco products by photometric method)

**Biological Laboratory**

**1 Biologische Untersuchungen von Tabak, Tabakerzeugnissen und elektronischen Verdampfungsprodukten**

SOP E 518  
2017-12 Rauchmaschinen für biologische Tests (Smoking machines for biological tests)

SOP 100  
2015-05 Kondensatgewinnung, -extraktion und -lagerung für Biotests (Smoke condensate generation, extraction and storage for use in biotests)

**2 Bestimmung der *in vitro* Toxizität von frischem Vollrauch, Rauchkondensaten, Dämpfen/ Aerosolen und Inhaltsstoffen von Tabakerzeugnissen und elektronischen Verdampfungsprodukten in biologischen Testsystemen \*\***

SOP BL 1  
2017-08 Bestimmung der *in vitro* Zytotoxizität von Rauchkondensaten, Inhaltsstoffen von Tabakerzeugnissen/elektronischen Verdampfungsprodukten und frischen Dämpfen/ Aerosolen - Neutralrot Aufnahme Test mit Säugetierzellen (Determination of *in vitro* toxicity of smoke condensates, ingredients for tobacco products/electronic vapour products and fresh vapours / aerosols - Neutral Red Uptake (NRU) Cytotoxicity Assay with mammalian cells)

**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

SOP 110 2018-04	Ames Test nach Exposition gegen Rauchkondensate, Frischrauch/Aerosol und Ingredienzien für Tabakprodukte/elektronische Vapour Produkte (Ames test following exposure to smoke condensates, fresh vapours/aerosols and ingredients for tobacco products/electronic vapour products)
SOP 131 2017-07	Bestimmung der <i>in vitro</i> Genotoxizität von Rauchkondensaten, Zusatzstoffen für Tabakprodukte/elektronische Verdampfungsprodukte und frische Dämpfe/Aerosole - Mikronukleus Test (IVM) mit V79 Zellen (Determination of <i>in vitro</i> genotoxicity of smoke condensates, ingredients for tobacco products/electronic vapour products and fresh vapours / aerosols - Micronucleus Assay (IVM) with V79 cells)
SOP 132 2017-10	Bestimmung der <i>in vitro</i> Genotoxizität von Rauchkondensaten und Zusatzstoffen für Tabakprodukte/elektronische Verdampfungsprodukte - Mikronukleus Test (IVM) mit TK6 Zellen (Determination of <i>in vitro</i> genotoxicity of smoke condensates and ingredients for tobacco products/electronic vapour products - Micronucleus Assay (IVM) with TK6 cells)

**Physical Laboratory**

**1 Probenvorbereitung von Tabak, Tabakerzeugnissen und Materialien zur Herstellung von Tabakerzeugnissen**

ISO 3402 1999-12	Tobacco and tobacco products - Atmosphere for conditioning and testing
ISO 187 1990-12	Paper, board and pulps - Standard atmosphere for conditioning and testing and procedure for monitoring the atmosphere and conditioning of samples

**2 Physikalische Untersuchungen von Tabak, Tabakerzeugnissen und Materialien zur Herstellung von Tabakerzeugnissen**

ISO 2971 2013-04	Cigarettes and filter rods - Determination of nominal diameter - Method using a non-contact optical measuring apparatus
ISO 6565 2015-12	Tobacco and tobacco products - Draw resistance of cigarettes and pressure drop of filter rods - Standard conditions and measurement

**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

ISO 9512 2002-06	Cigarettes - Determination of ventilation - Definitions and measurement principles
SOP M 802 2018-04	Zigaretten und Filterstäbe - Bestimmung von Durchmesser, Ovalität, Zugwiderstand, Druckverlust, Ventilation und Gewicht unter Verwendung einer Sodiqube Messstation (Cigarettes and filter rods - Determination of diameter, ovality, draw resistance, pressure drop, ventilation and weight using a Sodiqube measuring station)
ISO 2965 2009-05	Materials used as cigarette papers, filter plug wrap and filter joining paper, including materials having a discrete or oriented permeable zone and materials with bands of differing permeability - Determination of air permeability

**FCSA Lab**

**1 Probenahme von Tabak und Tabakerzeugnissen**

ISO 15592-1 2001-03	Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 1: Sampling
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**2 Probenvorbereitung von Tabak und Tabakerzeugnissen**

ISO 3402 1999-12	Tobacco and tobacco products - Atmosphere for conditioning and testing
ISO 15592-2 2001-03	Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 2: Atmosphere for conditioning and testing

**3 Chemische Untersuchungen von Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch**

ISO 4387 2000-04 Amd. 1: 2008-09 Amd.: 2: 2017-09	Cigarettes - Determination of total and nicotine-free dry particulate matter using a routine analytical smoking machine
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**Anlage zur Akkreditierungsurkunde D-PL-14465-01-00**

<p>ISO 8454 2007-06 Amd. 1: 2009-10</p>	<p>Cigarettes - Determination of carbon monoxide in the vapour phase of cigarette smoke - NDIR method</p>
<p>ISO 15592-3 2008-12</p>	<p>Fine-cut tobacco and smoking articles made from it - Methods of sampling, conditioning and analysis - Part 3: Determination of total particulate matter of smoking articles using a routine analytical smoking machine, preparation for determination of water and nicotine, and calculation of nicotine-free dry particulate matter</p>
<p>ISO 6488 2004-02 Cor.1: 2008-06</p>	<p>Tobacco and tobacco products - Determination of water content - Karl Fischer method</p>
<p>SOP 206 2016-05</p>	<p>Bestimmung des Wassergehaltes in Tabak - Karl Fischer coulometrische Methode (Determination of water content in tobacco - Karl Fischer coulometric method)</p>
<p><b>4</b></p>	<p><b>Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen sowie deren Hauptstromrauch mittels Gaschromatographie (GC) mit konventionellen Detektoren (FID und WLD) *</b></p>
<p>ISO 10315 2013-03</p>	<p>Cigarettes - Determination of nicotine in smoke condensates - Gas-chromatographic method</p>
<p>ISO 10362-1 1999-12 Amd. 1: 2011-07</p>	<p>Cigarettes - Determination of water in smoke condensates - Part 1: Gas-chromatographic method</p>
<p>CORESTA Recommended Method No. 60 2015-07</p>	<p>Determination of 1,2-propylene glycol and glycerol in tobacco and tobacco products by gas chromatography</p>
<p>CORESTA Recommended Method No. 62 2005-02</p>	<p>Determination of nicotine in tobacco and tobacco products by gas chromatographic analysis</p>



**5 Bestimmung von Inhalts- und Zusatzstoffen in Tabak und Tabakerzeugnissen mittels Hochleistungsflüssigchromatographie (HPLC) mit konventionellen Detektoren (Brechungsindex- und UV/Vis-Detektor) \***

DIN 10371 2001-01	Untersuchung von Tabak und Tabakerzeugnissen - Bestimmung des Glucose-, Fructose- und Saccharosegehaltes - Hochleistungsflüssigchromatographisches Verfahren (Determining the glucose, fructose and sucrose contents of tobacco and tobacco products by high-performance liquid chromatography)
DIN 10372 2001-01	Untersuchung von Tabak und Tabakerzeugnissen - Bestimmung des Glycerol-, Propylenglycol- und Sorbitolgehaltes - Hochleistungsflüssigchromatographisches Verfahren (Determining the glycerol, propylene glycol and sorbitol contents of tobacco and tobacco products by high-performance liquid chromatography)
DIN 10377 2003-10	Tabak und Tabakerzeugnisse - Bestimmung von Konservierungsstoffen mit Hochleistungsflüssigchromatographie (Determination of preservatives in tobacco and tobacco products using high-performance liquid chromatography)

**6 Physikalisch-chemische Untersuchungen von Rohmaterialien und Materialien zur Herstellung von Tabak und Tabakerzeugnissen**

SOP 205 2016-11	Determination of the density of raw materials
SOP 207 2017-06	Determination of refraction index of casings
SOP 208 2018-01	Water and casings - determination of pH

**verwendete Abkürzungen:**

Amd.	Amendment
AS	Australian Standard
ASTM	American Society for Testing and Materials
ASU	Amtliche Sammlung von Untersuchungsverfahren nach § 64 Lebensmittel- und Futtermittelgesetzbuch
CD	Leitfähigkeitsdetektor
Cor.	Technical Corrigendum
DAD	Diodenarraydetektor
DIN	Deutsches Institut für Normung e.V.
ECD	Elektroneneinfangdetektor
EN	Europäische Norm
FID	Flammenionisationsdetektor
FLD	Fluoreszenzdetektor
FPD	Flammenphotometrischer Detektor
GC	Gaschromatographie
HPLC	Hochleistungsflüssigchromatographie
IEC	International Electrotechnical Commission
IM	Hausverfahren der Reemtsma Cigarettenfabriken Gesellschaft mit beschränkter Haftung (Special Analytes Lab)
ISO	International Organization for Standardization
IVM	In vitro Mikronukleus
MS/MS	Tandem-Massenspektrometrie
MSD	Massenselektiver Detektor
NDIR	Nichtdispersiver Infrarotsensor
NNK	Nicotine-derived nitrosamine ketone
NRU	Neutralrot Aufnahme (aus dem Englischen: neutral red uptake)
SOP	Hausverfahren der Reemtsma Cigarettenfabriken Gesellschaft mit beschränkter Haftung (Central Lab und Biological Laboratory)
SOP BL	Hausverfahren der Reemtsma Cigarettenfabriken Gesellschaft mit beschränkter Haftung (Biological Laboratory)
TEA	Thermo Electron Analyzer
TSNA	Tabakspezifische Nitrosamine
UV	Ultraviolett
Vis	Sichtbar (aus dem Englischen: visible)
WLD	Wärmeleitfähigkeitsdetektor