複層カーボンナノチューブ（MWCNT）の
ラットを用いた吸入によるがん原性試験報告書

試験番号：0800

APPENDICES

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APPENDIX 1

ENVIRONMENTAL CONDITIONS OF INHALATION CHAMBER IN THE 2-YEAR INHALATION STUDY OF MULTI-WALL CARBON NANOTUBE

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Group Name	Temperature (℃) Mean ± S.D.	Humidity (%) Mean ± S.D.	Ventilation Rate (L/min) Mean ± S.D.	Air Change (time/h) Mean
Control	23.0 ± 0.2	53.8 ± 1.8	1670.1 ± 36.8	10.0
0.02 mg/m^3	22.9 ± 0.1	52.9 ± 2.4	1670.8 ± 36.1	10.0
0.2 mg/m^3	23.0 ± 0.2	53.3 ± 2.1	1671.2 ± 36.6	10.0
2 mg/m^3	23.0 ± 0.2	52.7 ± 2.0	1667.8 ± 38.2	10.0

APPENDIX 2

METHODS, UNITS AND DECIMAL PLACE FOR HEMATOLOGY AND BIOCHEMISTRY IN THE 2-YEAR INHALATION STUDY OF MULTI-WALL CARBON NANOTUBE

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Item	Method	Unit	Decimal place
Hematology			
Red blood cell (RBC)	Light scattering method [1)]	$\times 10^6/\mu L$	2
Hemoglobin(Hgb)	Cyanmethemoglobin method [1)]	g/dL	1
Hematocrit(Hct)	Calculated as RBC×MCV/10 [1)]	%	1
Mean corpuscular volume(MCV)	Light scattering method [1)]	fL	1
Mean corpuscular hemoglobin(MCH)	Calculated as Hgb/RBC×10 [1)]	pg	1
Mean corpuscular hemoglobin concentration (MCHC)	Calculated as Hgb/Hct×100 [1)]	g/dL	1
Platelet	Light scattering method [1)]	$\times 10^3/\mu L$	0
Reticulocyte	Light scattering method [1)]	%	1
White blood cell(WBC)	Light scattering method [1)]	$\times 10^3/\mu L$	2
Differential WBC	Light scattering method [1)]	%	0
Biochemistry			
Total protein(TP)	Biuret method [2)]	g/dL	1
Albumin (Alb)	BCG method [2)]	g/dL	1
A/G ratio	Calculated as Alb/(TP−Alb) [2)]	−	1
T-bilirubin	BOD method [2)]	mg/dL	2
Glucose	GlcK・G-6-PDH method [2)]	mg/dL	0
T-cholesterol	CE・COD・POD method [2)]	mg/dL	0
Triglyceride	MGLP・GK・GPO・POD method [2)]	mg/dL	0
Phospholipid	PLD・ChOD・POD method [2)]	mg/dL	0
Aspartate aminotransferase (AST)	JSCC method [2)]	U/L	0
Alanine aminotransferase (ALT)	JSCC method [2)]	U/L	0
Lactate dehydrogenase (LDH)	JSCC method [2)]	U/L	0
Alkaline phosphatase (ALP)	JSCC method [2)]	U/L	0
γ-Glutamyl transpeptidase (γ-GTP)	JSCC method [2)]	U/L	1
Creatine kinase (CK)	JSCC method [2)]	U/L	0
Urea nitrogen	Urease・GLDH method [2)]	mg/dL	1
Creatinine	Creatinase・SOD・POD method [2)]	mg/dL	2
Sodium	Ion selective electrode method [2)]	mEq/L	0
Potassium	Ion selective electrode method [2)]	mEq/L	1
Chloride	Ion selective electrode method [2)]	mEq/L	0
Calcium	OCPC method [2)]	mg/dL	1
Inorganic phosphorus	PNP・XOD・POD method [2)]	mg/dL	1

1) Automatic blood cell analyzer (ADVIA120：Siemens Healthcare Diagnostics Inc.)
2) Automatic analyzer (Hitachi 7080：Hitachi,Ltd.)