

Proficiency testing scheduled in Chemical Metrology/Materials/biology

Key	Name	Registration deadline	Protocol delivery date	Start date	Delivery date of final report	Cost USD	Measurand	Interval $\mu\text{mol/mol}$	Remark
CNM-EA-600-0006/201	Proficiency test for environmental laboratories of measurement and analysis of emission to the atmosphere according to NOM-085-SEMARNAT-2011.	2019/06/21	2019/06/28	2019/07/29	2019/09/13	1183	SO ₂ , NO, CO and O ₂	CO: 90 to 500; SO ₂ : 90 to 700, NO: 90 to 500 ppm, O ₂ : 30000 to 100000 %	The test is in situ, bring your equipment to CENAM
CNM-EA-600-0007/2019	Water measurement by Karl Fischer method	2019/04/22	2019/05/09	2019/05/13	2019/07/03	389	Water content	(4 - 7) g/100 g	Culometric and volumetric Karl Fischer techniques
CNM-EA-600-0008/2019	Water measurement by Karl Fischer method	2019/11/08	2019/11/29	2019/12/02	2020/02/03	389	Water content	(4 - 7) g/100 g	Culometric and volumetric Karl Fischer techniques
CNM-EA-600-0009/2019	Identification of Salmonella and Enteritidis serovar genus by aceK-iclR and Sdf1 genes.	2019/04/12	2019/04/22	2019/05/06	2019/07/15	272	aceK-iclR and Sdf1 gene	Identity	PCR techniques and massive sequencing.
CNM-EA-610-0003/2019	Total suspended solids in waste water according to NOM-002-SEMARNAT	2019/05/15	2019/05/22	2019/05/29	2019/06/26	340	Total suspended solids	140 mg/L to 300 mg/L	
CNM-EA-610-0002/2019	Average grain size in ferrous alloy	2019/04/05	2019/04/12	2019/04/26	2019/06/21	713	Grain size	(13-19) μm	
CNM-EA-610-0004/2019	X-ray diffraction for peaks position and relative intensities	2019/05/09	2019/05/13	2019/05/27	2019/08/30	318	Angle, peaks position and relative intensities	20 to 100 2Theta	
CNM-EA-610-0005/2019	Validation of Fourier transformed infrared spectrophotometers	2019/05/13	2019/05/17	2019/05/31	2019/08/09	389	Characteristic bands of polystyrene film	Medium infrared	
CNM-EA-610-0006/2019	Total sulfur in fuels	2019/06/14	2019/06/28	2019/06/28	2019/08/30	1412	High sulfur 6000 mg/kg, medium sulfur 100 mg/kg, Low sulfur 10 mg/kg, approximately.	10 mg/kg, 100 mg/kg y 6000 mg/kg, approximately.	
CNM-EA-610-0007/2019	Characterization of precious metals used in jewelry using scanning electron microscopy (EDX) and X-ray fluorescence	2019/05/03	2019/05/09	2019/05/20	2019/10/25	460	Au, Pt, Cu, Ag	From 0 % to 100 % mass fraction	
CNM-EA-620-0001/2019	Electrolytic conductivity in aqueous solutions	2019/08/08	2019/08/22	2019/08/22	2019/09/27	347	Electrolytic conductivity	(45-55) $\mu\text{S/cm}$	
CNM-EA-620-0002/2019	Acidity in aqueous solutions	2019/08/05	2019/08/19	2019/08/19	2019/09/26	296	Acidity	Concentration of quantity of substance (0.09-0.11) mol/L	
CNM-EA-620-0003/2019	Contaminants and others in soil	2019/04/15	2019/04/23	2019/04/23	2019/08/15	1130	Fe, As, Cd, Pb	Fe (10-30) mg/g, As (40-100) $\mu\text{g/g}$, Cd (100-600) $\mu\text{g/g}$ and Pb (50-300) $\mu\text{g/g}$	
CNM-EA-620-0004/2019	Toxic chemical elements in shrimp	2019/05/30	2019/06/11	2019/06/11	2019/09/19	742	As and Pb	As (5-20) mg/kg, Pb (0.5-5) mg/kg	
CNM-EA-620-0005/2019	Mercury in residual synthetic water	2019/08/15		2019/09/10	2019/11/21	460	Hg		
CNM-EA-630-0011/2019	Proximate analysis for whole milk powder	2019/04/12	2019/04/22	2019/04/22	2019/08/30	378	Protein, Fat, Ashes, Moisture, Lactose	Protein : < 30 g/100 g Fat: < 30 g/100 g Ashes: < 8 g/100 g Moisture : < 5 g/100 g Lactose: < 50 g/100 g	
CNM-EA-630-0002/2019	pH in soil	2019/03/29	2019/04/05	2019/04/15	2019/05/31	304	pH		
CNM-EA-630-0003/2019	Pesticides in tomatoes paste	2019/03/28	2019/03/29	2019/04/09	2019/06/28	389	Pesticides to be identified	(1-20) mg/kg on dry basis	Quantitative and qualitative determination

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CNM-EA-630-0007/2019	Glucose, cholesterol and urea in human serum	2019/03/29	2019/04/05	2019/04/08	2019/06/11	283	Glucose, cholesterol, Urea	Glucose 30-110 (mg/dL); Cholesterol 130-200 (mg/dL); Urea 5 - 40 (mg/dL)	Frozen human serum
CNM-EA-630-0004/2019	Alcohol content in alcoholic beverages	2019/04/01	2019/04/05	2019/04/09	2019/06/28	247	Alcohol content by specific gravity method	(35 to 50) % alcoholic volume	Only by digital density meter NMX-V-013-NORMEX-2013
CNM-EA-630-0006/2019	Refractive index in mineral oil	2019/03/15	2019/03/25	2019/03/25	2019/08/09	161	Refractive index	Refractive index 1.4 to 1.6	
CNM-EA-630-0008/2019	Water content and fatty acids in edible vegetable oil	2019/03/29	2019/03/29	2019/04/08	2019/06/28	311	Water content and mass fraction of fatty acids: palmitic, stearic, oleic, linoleic and linolenic	It depends on the mass fraction of each measurand	Edible vegetal oil
CNM-EA-630-0010/2019	Qualitative and quantitative determination of pesticides in freeze dried avocado	2019/06/06	2019/06/14	2019/06/18	2019/10/04	389	Pesticides to be identified	10 $\mu\text{g/kg}$ to 20 mg/kg, depending to the pesticides	
CNM-EA-630-0009/2019	Water-soluble vitamins in whole milk	2019/03/29	2019/04/08	2019/04/10	2019/08/23	468	Thiamine (B1), riboflavin (B2), niacinamide (B3), pantothenic acid (B5), pyridoxamine (B6-M), pyridoxal (B6-L), biotin (B7)	Varies according to the analyte	
CNM-EA-630-0014/2019	Measurement of protein, calcium, lactose and total solids in milk powder	2019/04/26	2019/05/13	2019/05/14	2019/09/13	327	Protein, calcium, lactose and total solids	Varies according to the analyte	
CNM-EA-630-0007/2019	Creatinine in three levels of concentration in human serum in collaboration with AMPEC.	2019/04/11	2019/04/22	2019/04/22	2019/06/28	278	Creatinine	Depends on the level of concentration	You must register in advance with AMPEC by email: contacto@ampec.org.mx and then register on the CENAM website.