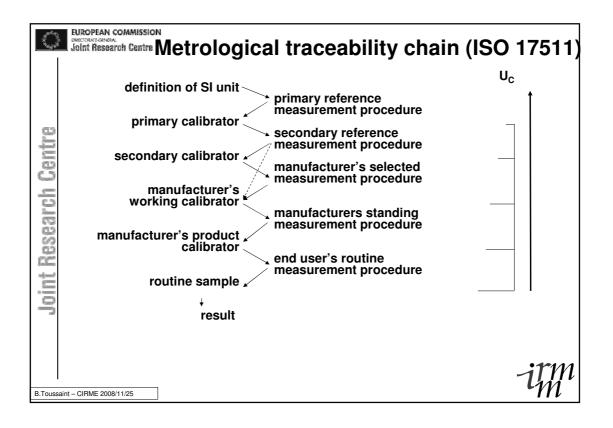
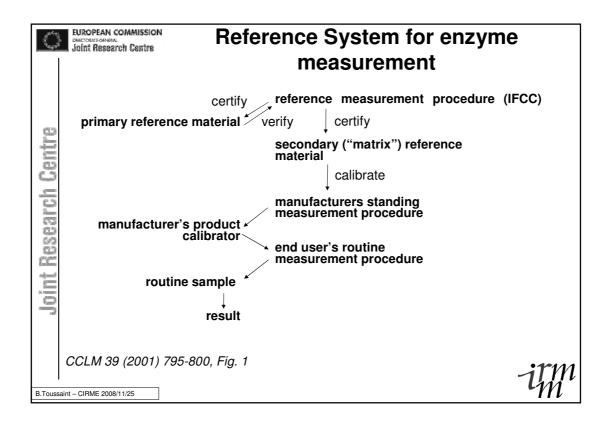
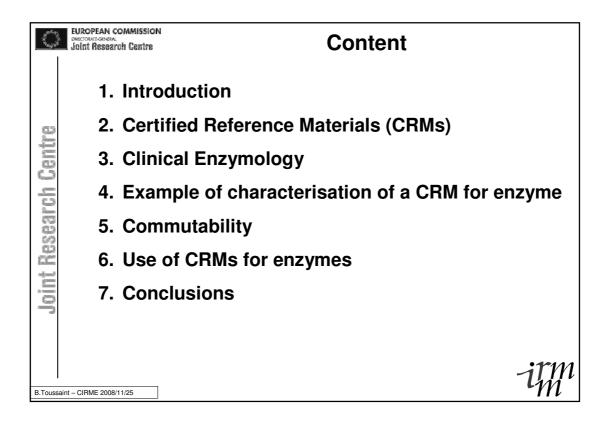
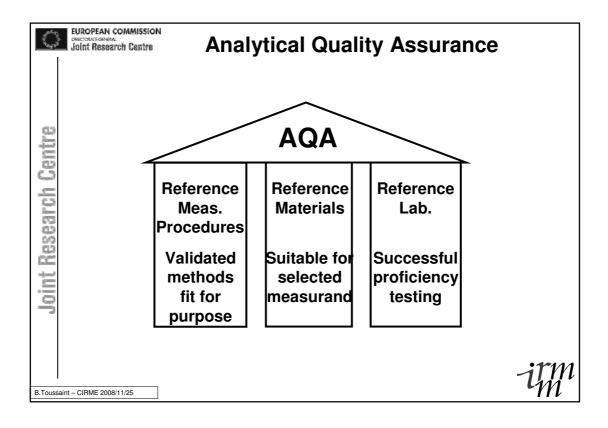


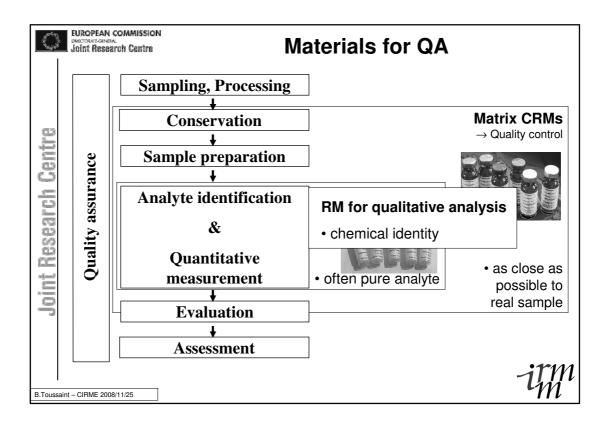
	ROPEAN COMMISSION TOURGNEAL Int Research Centre Traceability	
Centre	<ul> <li>EC mandated standard related to the IVD directive: ISO 17511; In vitro diagnostic medical devices - Metrological traceability of values assigned to calibrators and control materials</li> </ul>	
Research Cer	<ul> <li>Underlying assumption: Being traceable to a common standard or stated reference should ensure that independently obtained measurement results will overlap within their stated uncertainties and at a certain level of confidence with the true value and consequently with each other</li> </ul>	
Joint	<ul> <li>provided measurement procedures applied in the traceability chain determine the same measurand</li> </ul>	
0 D	<ul> <li>if the comparison measurements do not introduce unrecognised bias (e.g. matrix effects, differential extraction etc.)</li> </ul>	
	<ul> <li>if all relevant uncertainty components are included in the estimate of the combined uncertainties</li> </ul>	
B.Toussain	IRME 2008/11/25	${n \atop l}$

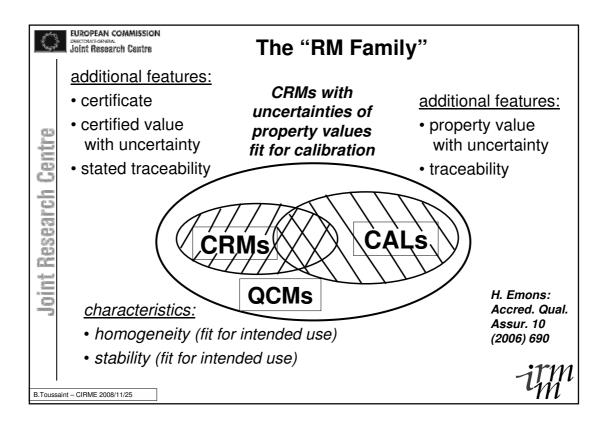


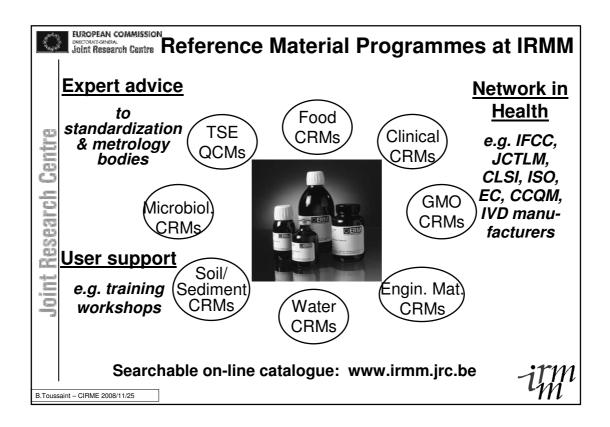


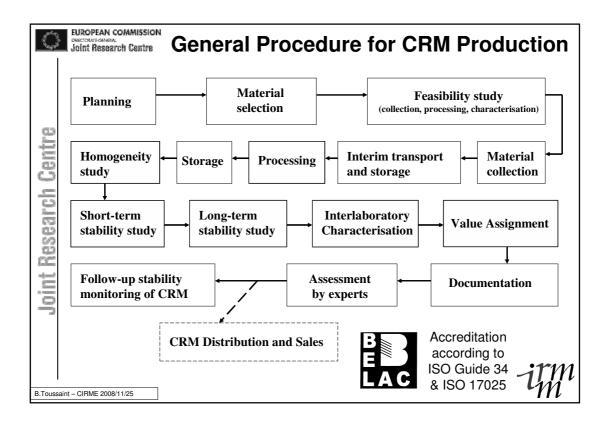


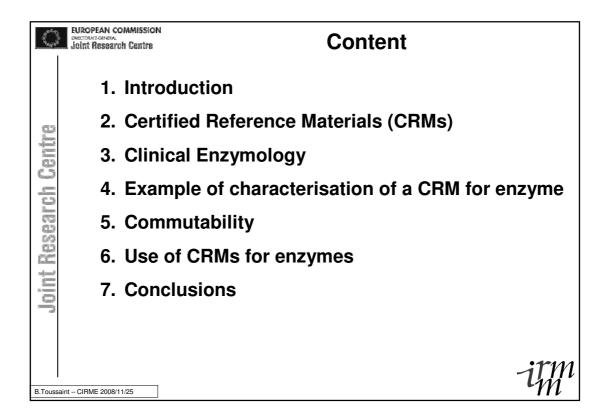


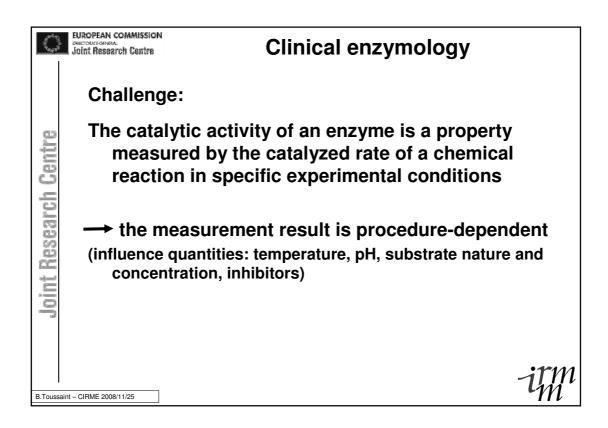


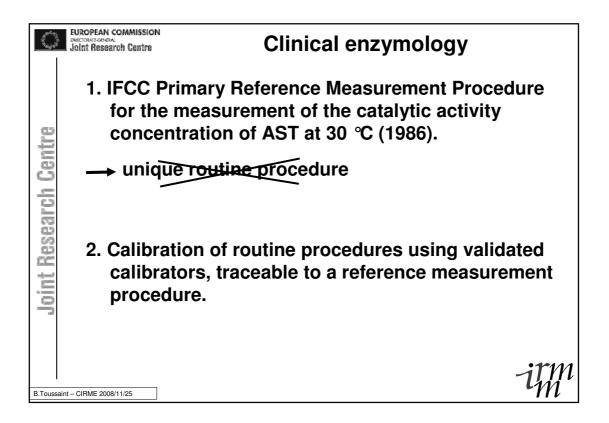


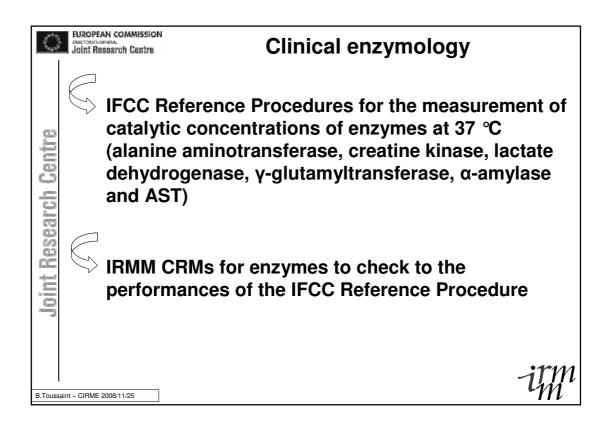




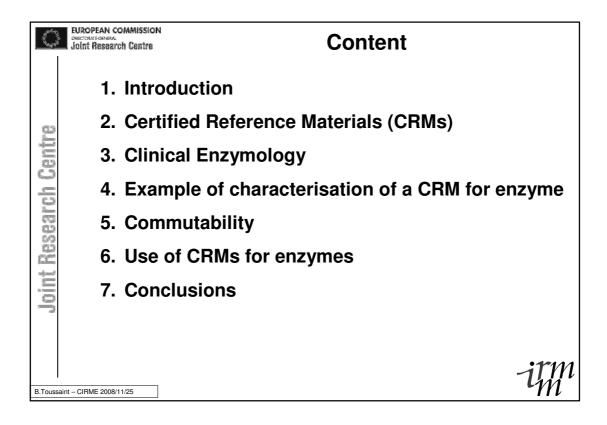


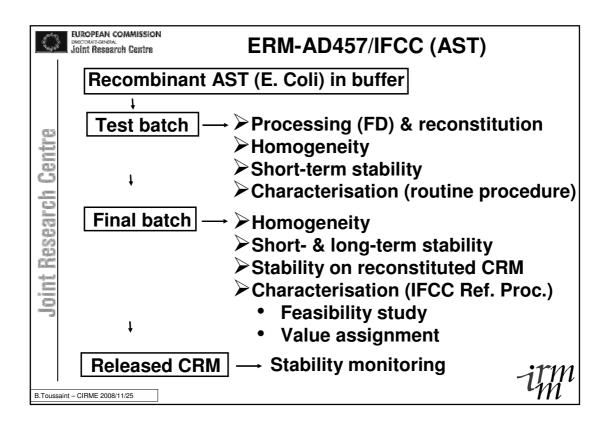


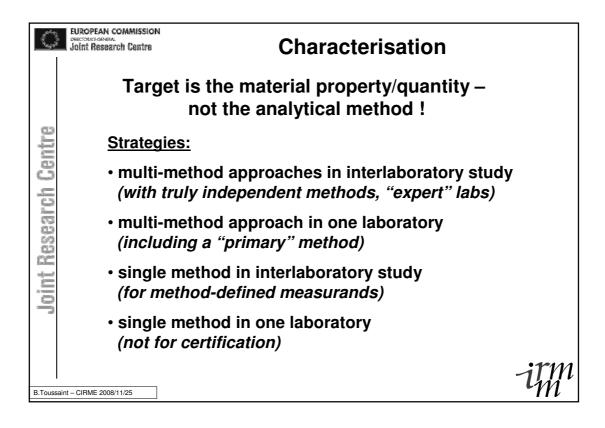


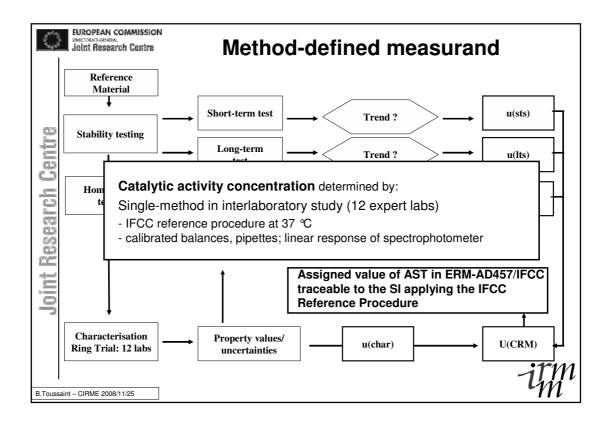


EUROPEAN COMMISSION Descrours GNEAL Joint Research Centre			
Joint Research Centre	Gamma-glutamyltransferase	ERM-AD452	
	Lactate dehydrogenase 1	ERM-AD453	
	Alanine aminotransferase	ERM-AD454	
	Creatine kinase-2 (CK-MB)	ERM-AD455	
	Creatine kinase-1 (CK-BB)	BCR 299	
	Pancreatic alpha-amylase	IRMM/IFCC-456	
	Aspartate transaminase	ERM-AD457/IFCC	
	Prostatic acid phosphatase	BCR 410	
	Adenosine deaminase	BCR 647	
	Pancreatic lipase	BCR 693	
B.Touss	Recombinant lipase	BCR 694 $-im_{m}$	

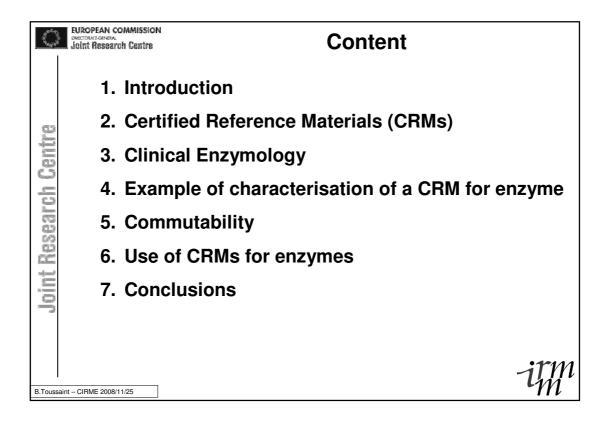


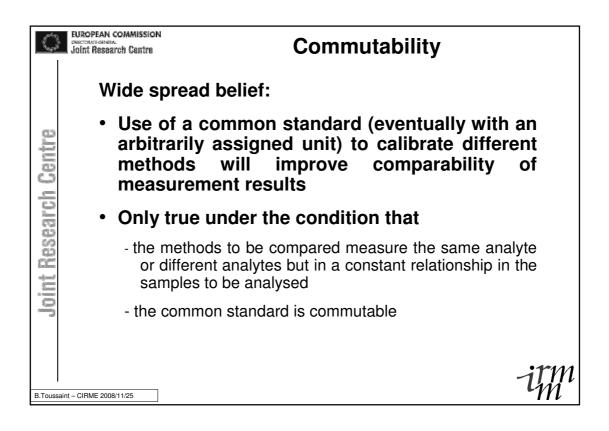


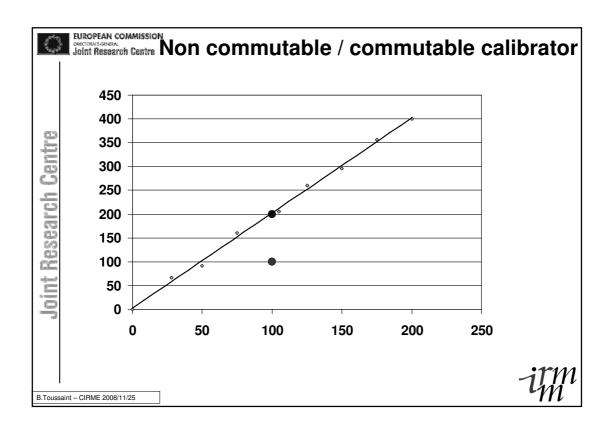


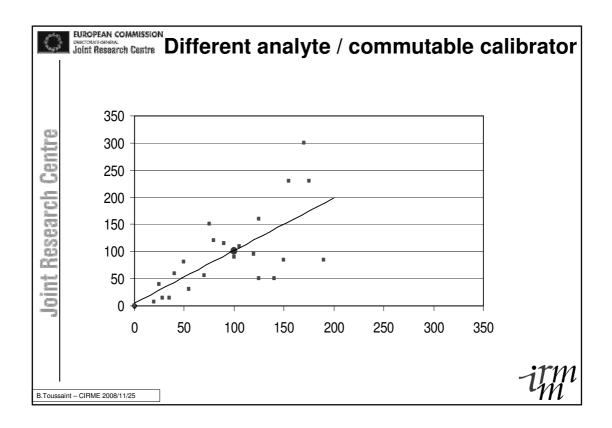


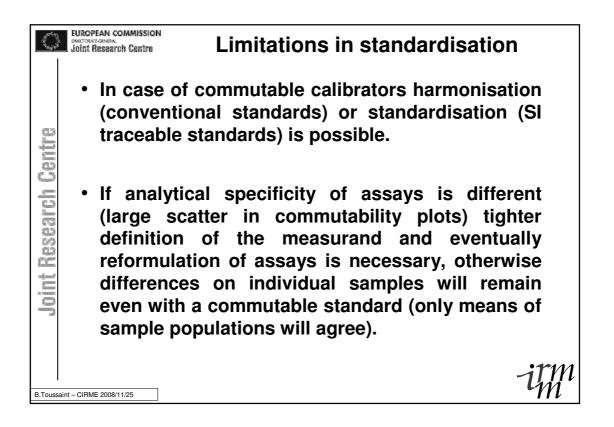
EUROPEAN COMA Directouregeneral Joint Research C	EKIVI-AU43/	/IF(	CC (AST)	
	Uncertainty budget	EF	M-AD457/IFCC	
ILLE	Relative <i>u</i> <sub>bb</sub> [%]		0.72	
8	Relative <i>u</i> <sub>lts</sub> [%]		0.39	
	Relative <i>u</i> <sub>char</sub> [%]		0.84	
kesearch Centre	Certified value		1.74 μkat/L 104.7 U/L	
	Expanded uncertainty of the certified value U <sub>CRM</sub> (k=2)		0.04 μkat/L 2.5 U/L	
	1 μkat/L = 60 U/L			
Toussaint - CIRME 2008/11/25	1 U = 10 <sup>-6</sup> mol/60 s = 16.7 x 10 <sup>-9</sup> mol/	S		im

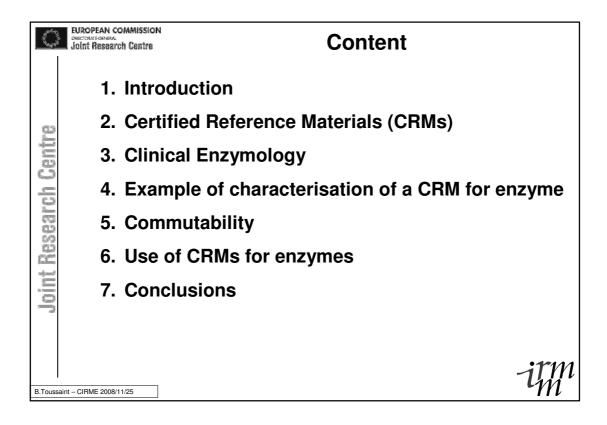


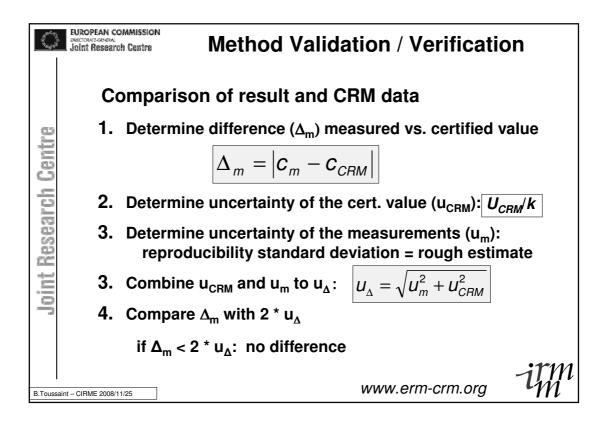












	EUROPEAN COMMISSION Discoursement Joint Research Centre	Control charts	
oint Research Centre			Out-of control Alarm Expected value Alarm Out-of control
	• gu • us	ed value using a CRM for QC Charts: Jaranteed homogeneity Sually better stability Imediate trueness check	
B.Touss		should reflect uncertainty of and variation of results $U_c = \sqrt{u}$	$J_{CRM}^2 + s^2$ $J_{CRM}^2$

	EUROPEAN COMMISSION Descroture General Joint Research Centre Control	
Research Centre	<ul> <li>The catalytic activity of an enzyme is a property, not an amount of substance</li> </ul>	
	<ul> <li>The result is method-dependent</li> </ul>	
	<ul> <li>CRMs are a key component of the Reference Measurement System for enzymes, ensuring the traceability of the measurement result to the reference procedure</li> </ul>	
Joint Re	<ul> <li>under the condition that the reference procedure and the routine procedures have the same specificities for the enzyme</li> </ul>	
B.Touss	- CIRME 2008/11/25	1