

These tables are the in-house checklists used for the UW Model Repository at www.physiome.org

	STANDARDS.5: VALIDATION TESTING:	Auth	2nd	Note
Group 1: Identification and Description				
	Model Name and No: short and long descriptions complete			
	Code verified and runs correctly. See STANDARDS.4VERIF			
	Diagrams represent the key elements of the system			
	Reference to Publication describing the model			
	Context and Purpose of model defined			
Group 2. Data for Validation testing. FIGURES and NOTES describe validation				
	Experimental data available, and described. Reproducible?			
	The data are defined, figures and parameter sets (All matched)			
	Data figures: Titles appropriate			
	Data figures: axes labeled with symbol, name and units			
	Figures use very short tab labels fitting topic.			
	Graphs use same colors and line types for same variable in every figure.			
	Ontology consistent in notation of .mod, Figures and Notes and Par sets			
	Notation consistent with diagrams, code, Website, publication			
	Parameters sets: Description and rationale for each set of data			
	Optimization re data or other model: Opt Choice, par set, Notes			
	Loops: purposes and settings; par set			
Group 3. Validation evaluation:				
	Initial and boundary conditions in accord with physiology?			
	List Data provided and fitted by model, and sources.			
	Balance checks. (Mass, charge, osmotic, energy)			
	RMS error and CV for all data sets. Different data sets comparable?			
	Show fits of data in Figures, and optimization results			
	Notes defining contents of each situation, figure or par set			
	Parameters estimated and evaluated against literature or other			
	Parameter correlations not near 1			
	Parameters omitted from optimization?			
	Sensitivity functions. How to plot. Why useful. Notes. Use same colors.			
	Residuals random or systematic?			
Group 4. Uncertainty Quantification: See STANDARDS-UQ for detail				
	1. Parameters and Variables chosen re sensitivities to critical parameters			
	2. Define measures of uncertainty for system overall behavior			
	3. Make choices for contour maps and pdfs of projected results			
Group 5: Scientific Publication: See STANDARDS-PUB for detail				
	Summary of the Validation criteria and success			
	Weaknesses in validation; parameters/model components undefined			
	Define future expts, model revisions, commentary and responses			