

Materials List for:

A Computerized Test Battery to Study Pharmacodynamic Effects on the Central Nervous System of Cholinergic Drugs in Early Phase Drug Development

Ellen P. Hart¹, Ricardo Alvarez-Jimenez¹, Esther Davidse¹, Robert Jan Doll¹, Adam F. Cohen¹, Joop M.A. Van Gerven¹, Geert Jan Groeneveld¹

¹Centre for Human Drug Research (CHDR), Leiden

Correspondence to: Geert Jan Groeneveld at ggroeneveld@chr.nl

URL: <https://www.jove.com/video/56569>

DOI: [doi:10.3791/56569](https://doi.org/10.3791/56569)

Materials

Name	Company	Catalog Number	Comments
NeuroCart general computer hardware			
Amplicon Impact E70 (=computer)			
Medical insulation transformer	Thalheimer Trenntransformator	ERT 230/23/6G	
24 inch widescreen	DELL	U2412M	for subject
PS2 Mouse	DELL		for subject
PS2 Keyboard	DELL		for subject
Photocamera	Canon	EOS 1100D	
EOS utility program	Canon	N.A.	photocamera software
17 inch computer screen (research assistant)	DELL	1708FP monitor	for research assistant
USB keyboard (research assistant)	DELL		for research assistant
USB mouse (research assistant)	DELL		for research assistant
Name	Company	Catalog Number	Comments
NeuroCart general computer software			
Windows 7 or higher	Microsoft		
E-prime 2.0	Psychology Software Tools, Inc. (PST)	N.A.	every test has a custom, internally validated script
Name	Company	Catalog Number	Comments
EEG and eye electrodes hardware			
Grass series Amplifier Systems	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15LT	amplifier for EEG electrodes
Quad, wide-band, high-gain, programmable AC amplifier	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15A54	part of the 15LT ampifier
Quad, high-gain, programmable AD amplifier	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15A94	
Bioelectric Input Box, Electrode Board Model BIPOLA	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15LT	input box for electrodes
Electrode Impedance Meter	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	F-EZM5	
A/ D converter	Cambridge Electronic Design (CED), Cambridge, UK	1401 Mk1 and Mk2	
Gold electrodes	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	Fx-E5GH	EEG electrodes
Ambu ECG electrodes	BlueSensor	N-OO-s/25	Eye electrodes

EC2 cream	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	N.A.	electrode cream
Nuprep	Weaver and Company	N.A.	Skin prep gel
Name	Company	Catalog Number	Comments
EEG and eye electrodes software			
Grass link 15 software	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	N.A.	
Spike 2	Cambridge Electronic Design Limited	N.A.	every test has a custom, validated script
Name	Company	Catalog Number	Comments
Adaptive tracking materials (hard and software)			
Adaptive tracking joystick	Job Kneppers Ontwerp en Realisatie B.V., Delft.	N.A.	custom built
TrackerUSB	Kevin Hobbs, CarbisDesign, UK	N.A.	Adaptive tracking software
Name	Company	Catalog Number	Comments
Bodysway hardware			
Posturograph	Sentech BV	Celesco SP2 -50	
Medical insulation transformer	Thalheimer Trenntransformator	ERT 230/23/6G	
Grass series Amplifier Systems	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15LT	
Quad, wide-band, high-gain, programmable AC amplifier	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15A54	
Quad, high-gain, programmable AD amplifier	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15A94	
Bioelectric Input Box, Electrode Board Model BIPOLA	Grass-Telefactor, An Astro-Med, Inc. Product Group/Natus	15LT	