Avanti® Polar Lipids, Inc.

Certificate of Analysis

Popular Detergent Kit

850561P-1ea

KIT COMPONENTS (1g vial of each)			
Short Name	**Product #**	**Long Name**	**Lot #**
MAPCHO®-12	850336	n-dodecylphosphocholine	850336P-1EA-A-074
CHAPS	850500	3-[(3-Cholamidopropyl)dimethylammonio]-1-propanesulfonate	850500P-1G-A-013
n-octyl-ß-D-glucoside	850511	n-octyl-ß-D-glucopyranoside	850511P-1G-A-014
DDM	850520	n-dodecyl-ß-D-maltopyranoside	850520P-1G-A-014
GDN	850525	glyco-diosgenin (GDN)	850525P-1G-A-016
MEGA-9	850541	N-nonanoyl-N-methylglucamine	850541P-1G-A-022

Physical State Powder
Storage -20°C
Expiration Date One year from date of receipt
M Lot Number 6576PAB010
Avanti Kit Lot Number **850561P-1EA-B-010**

KIT COMPONENT	ANALYSIS OF INDIVIDUAL COMPONENTS			
	Physical Examination	**TLC**	**Proton NMR**	**Mass Spectroscopy**
MAPCHO®-12 (850336)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: positive Charring: positive Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 352.462 ± 1 amu **Result:** $[M+H]^+$ = 352.4 amu
CHAPS (850500)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 615.877 ± 1 amu **Result:** $[M+H]^+$ = 615.8 amu
n-octyl-ß-D-glucoside (850511)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 310.369 ± 1 amu **Result:** $[M+H]^+$ = 310.4 amu

For Research Use Only. Not For Human Use.

Avanti Polar Lipids, Inc. 700 Industrial Park Drive, Alabaster, Alabama 35007-9105, USA
Telephone (800) 227-0651 • (205) 663-2494 Fax (800) 229-1004 • (205) 663-0756
E-mail Orders: orders@avantilipids.com • E-mail Inquiries: info@avantilipids.com
E-mail Technical Questions: technical@avantilipids.com • Visit www.avantilipids.com

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KIT COMPONENT	ANALYSIS OF INDIVIDUAL COMPONENTS			
	Physical Examination	TLC	Proton NMR	Mass Spectroscopy
DDM (850520)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 528.615 ± 1 amu **Result:** $[M+H]^+$ = 528.6 amu
GDN (850525)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: positive Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 1183.315 ± 1 amu **Result:** $[M+H]^+$ = 1183.4 amu
MEGA-9 (850541)	**Specification:** White solid which contains no foreign matter **Result:** Pass	**Specification:** >99% Purity Ninhydrin: negative Iodine: one major spot Phosphorus: negative Charring: negative Water dip: one major spot **Result:** All Pass	**Specification:** NMR spectrum consistent with structure **Result:** Consistent with structure	**Specification:** $[M+H]^+$ = 336.436 ± 1 amu **Result:** $[M+H]^+$ = 336.5 amu

Approved By: Melissa Liles

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E-mail Orders: orders@avantilipids.com • E-mail Inquiries: info@avantilipids.com
E-mail Technical Questions: technical@avantilipids.com • Visit www.avantilipids.com