

BioSS® Cleaning Surfactants by Advanced BioCatalytics

Fermentation based surfactants providing high performance and cost-effective cleaning solutions

Advanced BioCatalytics (“ABC”) offers a suite of bio-surfactants that provide superior cleaning for a wide range of applications. Our bio-surfactants are based entirely on the fermentation of microbiology which makes our chemistry natural, sustainable and with very low toxicity.

BioSS® Cleaning Surfactants offer key benefits including:

- 100% fermentation based
- Does not contain palm oil
- Free of APEO, VOC, and aromatic solvents
- Never contains 1,4 dioxane
- Lower overall surfactant use in formulations
- Range of performance characteristics to choose from for flexibility in formulations



Advanced BioCatalytics current product offering:

BioSS® RL – Rhamnolipid anionic surfactant – Very low CMC, Surface and Interfacial Tension. EPA Safer Choice Registered and CleanGredients listed.



BioSS® MEL – Mannosylerythritol (MEL) nonionic surfactant – High Foaming, low Interfacial Tension

BioSS® SL – Sophorolipid nonionic surfactant – Good Foamer, and Oil Holding Capacity

BioSS® MR – Rhamnolipids and MEL Blend optimized with ABC yeast metabolite technology producing Ultra-low CMC, IFT, Surface Tension and Contact Angles (Wetting Properties)

BioSS® RS – A blend of Rhamnolipids and Sophorolipids with ABC yeast metabolite technology

BioSS® L4 – The light blend of ABC’s yeast metabolites for use with surfactants in consumer and institutional products to lower IFT and improve overall surfactant efficiency

BioSS® D2 – ABC’s dark yeast metabolite blend for integration with surfactants for industrial applications to enhance overall performance

Performance Properties and Technical Data:

PROPERTY	BioSS® RL	BioSS® MEL	BioSS® MR	BioSS® SL	APG 215	MARKET SOPHOROLIPID
ROSS MILES FOAM, MM @ 5 MIN	89.5 mm	117.4 mm	87.2 mm	107.9 mm	70.5 mm	92.3 mm
CONTACT ANGLES - DEG. ON BOROSILICATE GLASS - 10 SECONDS	10.9	9.3	3.7	16.3	14.5	23.7
CRITICAL MICELLE CONCENTRATION	0.009%	0.0471%	0.00776%	0.126%	0.0245%	0.123%
INTERFACIAL TENSION - MINERAL OIL	1.21	1.12	0.56	2.21	1.60	2.53
SURFACE TENSION @ CMC (MN/M)	25.34	29.13	23.34	38.09	29.04	38.56

For more information or inquiries please contact Advanced BioCatalytics at:

www.abiocat.com, sales@abiocat.com, (949) 442-0880, 18010 SkyPark Circle, Suite 130, Irvine California 92614 USA

