

# Supplementary Material

## A Sebum-Mimetic Lipid Monolayer and Its Interaction with (Bio)Surfactants

Ilona Jurek<sup>1</sup>, Kamil Wojciechowski<sup>1</sup> \*

*1) Faculty of Chemistry, Warsaw University of Technology, Noakowskiego 3, 00-664*

*Warsaw, Poland*

Table S1. Details of the origin and composition of lipids used for preparation of the synthetic sebum

Component	Origin	Content [% mol/mol]	Average molar mass [g/mol] (literature source)
Stearic acid ≥ 98,5%,	Sigma-Aldrich	38	282.5 (supplier's webpage)
Cholesterol ≥ 99%	Sigma-Aldrich	4	386.7 (supplier's webpage)
Lanolin	Zarzeccy Drogerie Sp. z o.o.	27	370.0 (A. Sengupta, J. Behera, Comprehensive view on chemistry, manufacturing & applications of lanolin extracted from wool pretreatment, American Journal of Engineering Research (AJER). 3 (2014), issue 7, 33–43.]
Lard	FPH. „Agi” S.Koncewicz	18	846.8 (A. Yamsub, A. Kaewchada, A. Jaree, Pork lard conversion to biodiesel using a microchannel reactor, Korean Journal of Chemical Engineering 31 (2014) 2170–2176; J.M. Dias, C.A. Ferraz,

			M.F. Almeida, Using Mixtures of Waste Frying Oil and Pork Lard to produce Biodiesel, Engineering and Technology. 2 (2008) 258–262)
Squalane from olive oil	Neatwholesale, UK	13	422.8 (supplier's webpage)

Table S2. Details of the origin of the herbal material used in the study

Common name	Latin name	Origin	Specimen voucher no.
Oat	<i>Avena sativa</i> L.	P.P.U.H. Niro Sp. z o.o., Boronów, Poland (mixture of hulless varieties from ecological agriculture). Purchase date: 2018	WA0000098194
Horse chestnut	<i>Aesculus hippocastanum</i> L.	Astex Sp. z o.o., Wierzbówiec, Poland (collected from the wild state). Purchase date: 2019	WA0000098193
Cowherb	<i>Vaccaria hispanica</i> [P. Mill.] Rauschert	Canadian Carnation BioProducts Company LLC, Canada. Purchase date: 2017	WA0000098198
Soapwort	<i>Saponaria officinalis</i> L.	“Dary Natury”, Koryciny, Poland. Purchase date: 2017	WA0000098197
Soybean	<i>Glycine max</i> (L.) Merr.	BRAT.pl Sp. z o.o., Rabka-Zdrój, Poland (mixture of unknown varieties). Purchase date: 2018	WA0000098196
Quinoa	<i>Chenopodium quinoa</i> Willd.	“Faro” variety, cultivated in Poland (Research Centre for Cultivar Testing in Chrzastowo) by dr hab. K. Gęsiński, University of	WA0000098195

		Science and Technology Bydgoszcz, Poland). The seed hulls were obtained by mechanical scarification.	
--	--	--	--