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Reference List sorted by Section Numbers

Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
A2-01 Included in the confidential part	Black, J.	2002	Letter to Purac concerning the identity of SY-83. Entek corporation, no number. Not GLP, not published	Y	Purac
A3.1.1_01	Van Dongen, A.P.M.	2006a	Expert Statement. Melting point of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.1.1_02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.1.1_03	Rahmani, R.	2002	The chiral resolution of lactic acid and sodium lactate. Student report, purac, no report no, Not GLP, not published	Y	Purac
A3.1.2_01	Van Dongen, A.P.M	2006Ь	Expert Statement. Boiling point of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.1.2_02 Is a cross reference to A3.1.1_02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A.3.1.2_03	PURAC	No date	Physical properties of lactic acid. Purac internal data. Purac, no report no. Not GLP, unpublished	Y	Purac
A3.1.2_04	EPIsuite	No date	Results of the EPIWIN calculation. Generated with the program EPIsuite v3.20 (February 2007). US Environmental Protection Agency. Not GLP, not published	Y	Puras
A3.1.3_01	Van Dongen, A.P.M	2006с	Expert Statement. Liquid Density of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published		
A3.1.3_02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV:	N	-

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Is a cross reference to A3.1.1_02			Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published		
A3.1.3_03	Korevaar, L.	1996	Physical properties lactic acid solutions. Purac internal report, Purac report no. 95-80 Not GLP	Y	Purac
A3.2_01	Van Dongen, A.P.M	2006d	Expert Statement. Vapour pressure of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.2.1_01	Van Dongen, A.P.M	2006e	Expert Statement. Henry's law contant of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.2.1_02 Is a cross-reference to A3.1.2_04	EPIsuite	No date	Results of the EPIWIN calculation. Generated with the program EPIsuite v3.20 (February 2007). US Environmental Protection Agency. Not GLP, not published	Y	Putac
A3.4_02	Holten, C.H.	1971ь	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter VI: Spectra Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.4_03	Holten, C.H.	1971c	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter XIX: Stability of Crystalline L-(+)-Lactic Acid. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.5_01	Van Dongen, A.P.M	2007a	Expert Statement. Solubility of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.5_02 is a cross reference to A3.1.1-02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.6_01	Van Dongen, A.P.M	2007b	Expert Statement. Dissociation constant (pKa) of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP,	Y	Purac

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A3.6_02	Holten, C.H.	1971d	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter V: Physical chemistry. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.6_03	Heesen, G.J.	1970	Bepaling van de zuursterkte van melkzuur en lactoylmelkzuur. Purac Internal report. Purac, no report no. No GLP, unpublished	Y	Purac
A3.7_01 Is a cross reference to A3.5_01	Van Dongen, A.P.M	2007a	Expert Statement. Solubility of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.7_02	Van Krieken, J.	1993	Solubility of lactic acid crystals in organic solvents. Purac Internal report. Purac, no report no. No GLP, unpublished	Y	Purac
A3.9_01	Van Dongen, A.P.M	2007с	Expert Statement. Partition Coefficient Octanol/water of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.9_02 Is a cross-reference to A3.1.2_04	EPIsuite	No date	Results of the EPIWIN calculation. Generated with the program EPIsuite v3.20 (February 2007). US Environmental Protection Agency. Not GLP, not published	Y	Purac
A3.9_03	European Chemicals Bureau	2000	IUCLID dataset L(+) lactic acid, European Chemicals Bureau, IUCLID-file European HPV program Not GLP, published	N	-
A3.10_01	Van Dongen, A.P.M	2007d	Expert Statement. Stability of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.10_02	Lobbes; R.P.	1998	Stress-testing of lactic acid Purac Internal report. Purac, no report no. No GLP, unpublished	Y	Purac
A3.12_01 is a cross reference to	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties.	N	-

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A3.1.1-02			Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published		
A3.13_01	Van Dongen, A.P.M	2007e	Expert Statement. Surface tension of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.13_02 is a cross reference to A3.1.1-02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.13_03 is a cross- reference to A3.1.3-03	Korevaar, L.	1996	Physical properties lactic acid solutions. Purac internal report, Purac report no. 95-80 Not GLP	Y	Purac
A3.14_01	Van Dongen, A.P.M	2007f	Expert Statement. Viscosity of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A3.14_02 is a cross reference to A3.1.1-02	Holten, C.H.	1971a	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter IV: Physical properties. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A3.14_03 is a cross reference to A3.1.3-03	Korevaar, L	1996	Physical properties lactic acid solutions. Purac internal report, Purac report no. 95-80 Not GLP	Y	Purac
A3.17_01	Van Dongen, A.P.M	2007d	Expert Statement. Stability of L(+) lactic acid. Purac expert statement, Purac, no report no. Not GLP, not published	Y	Purac
A4.1_01	Holten, C.H.	1971e	Lactic acid. Properties and Chemistry of Lactic Acid and Derivates. Chapter XVIII: Analytical chemistry. Verlag Chemie GmbH, Weinheim/Bergstr. Germany. Not GLP, published	N	-
A4.1_02	Anonymous	1968	Milchsäure, Acidium lacticum. Deutsches Arzneibuch, 7 <sup>th</sup> edition, Deutscher Apotheker-Verlag, Stuttgart, Govi-Verlag GmbH, Frankfurt, p. 680- 681. Not GLP, published	No	-

Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
A4.1_03	Klein, J.	2001	Assay of Lactic acid. Purac Document no. AMLAC009 Not GLP, unpublished	Y	Purac
A4.1_04	Klein, J.	2000	Standardization of 1N hydrochloric acid Purac Document no. AMSTD002 Not GLP, unpublished	Y	Purac
A4.1_05	Klein, J.	2000	Standardization of 1N sodium hydroxide Purac Document no. AMSTD003 Not GLP, unpublished	Y	Purac
A4.2_01	Klein, J.	2007	Lactic acid in earth Purac Document no. AMENV001 Not GLP, unpublished	Y	Purac
A5_01	Alakomi, HL., Skyttä, E., Saarela, M., Mattila- Sandholm, T., Latva- Kala, K., Helander, I.M.	2000	Lactic acid permeabilizes Gram-negative bacteria by disrupting the outer membrane.  Applied and Environmental Microbiology, Vol. 66, No.5, p.2001-2005.  Not GLP, published	Y	Purac
A6.1.1_01*		1984	Acute oral LD50 study in rats using SY-83 GLP, Unpublished	Y	Purac
A6.1.1_02		1983	Acute oral toxicity study in rats using SY-83 at a dose level of 5 grams per kilogram of body weight  GLP, Unpublished	Y	Purac
A6.1.1_03		1998	Acute oral toxicity study with manganese-L-lactate in rats  GLP, Unpublished	Y	Purac
A6.1.1_04		1998	Acute oral toxicity study with magnesium-L-lactate in rats  GLP, Unpublished	Y	Purac
A6.1.1_05		1998	Acute oral toxicity study with ferrous-L-lactate in rats  GLP, Unpublished	Y	Purac
A6.1.2_01*		1983	Acute dermal toxicity study in rabbits using SY-83 at a dose level of 2 grams per kilogram of body weight  GLP, Unpublished	Y	Purac

## L(+) Lactic Acid (PTs 2, 3 and 4)

Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
A6.1.3_01*		1987	Acute inhalation toxicity study of SY-83 in the rat  GLP, Unpublished	Y	Purac
A6.1.4_01*		1996	Chicken Enucleated Eye Test with three samples of lactic acid; an alternative to the Draize eye irritation test with albino rabbits  GLP, Unpublished	Y	Purac
A6.1.4_02		1983	Primary dermal irritation study in rabbits using SY-83 GLP, Unpublished	Y	Purac
A6.1.4_03		1986	Acute dermal irritation/corrosion test with lactic acid (50%) in albino rabbits  GLP, Unpublished	Y	Purac
A6.1.4_04		1995	Acute dermal irritation/corrosion study with a 10% aqueous solution of lactic acid in albino rabbits  GLP, Unpublished	Y	Purac
A6.1.4_05		1996	Acute dermal irritation/corrosion study with Purac BF S36 and Purac BF S/30 in albino rabbits  GLP, Unpublished	Y	Purac
A6.1.4_06		1987	Acute dermal irritation/corrosion study with lactic acid (88%) in pigs  GLP, Unpublished	Y	Purac
A6.1.4_07		1987	Acute dermal irritation/corrosion study with lactic acid (50%) in pigs  GLP, Unpublished	Y	Purac
A6.1.4_08		1986	Lactic acid Q88: a skin corrosivity test in guinea pigs  GLP, Unpublished	Y	Purac
A6.1.4_09		1996	In vitro skin irritation study in rabbit and human skin organ cultures after 30 minutes exposure to lactic acid and lactic acid esters	Y	Purac

Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
			GLP, Unpublished		
A6.1.4_10	Harbell, J.W.	1994	Corrositex Continuous Time Monitor Assay Microbiological Associates Inc. Report nr. A000449 Not GLP, Unpublished	Y	Purac
A6.1.4_11*	Andersen, F.A.	1997	Safety assessment of glycolic acid, ammonium, calcium, potassium, and sodium glycolate, methyl, ethyl, ptopyl, and butyl glycolate, and lactic acid, ammonium calcium, potassium, sodium, and TEA-lactate, methyl, ethyl, isopropyl, and butyl lactate, and lauryl, myristyl, and cetyl lactate  Cosmetic Ingredients Review, final report. International Journal of Toxicology, Vol.17, Suppl.1  Not GLP, Published	N	-
A6.1.5_01*		1986	Dermal sensitization study in guinea pigs with SY-83 GLP, Unpublished	Y	Purac
A6.2_01	Sterenborg, I.	2007	Lactic acid as biocidal active substance. Statement to address requirements of Directive 98/8/EC. ENVIRON report nr. PU-LBD-20070039 Not GLP, Unpublished	Y	Purac
A6.2_02	Miller, B.F., Fattor, J.A., Jacobs, K.A., Horning, M.A., Navazio, F., Lindinger, M., I., and Brooks, G.A.	2002	Lactate and glucose interactions during rest and exercise in men: effect of exogenous lactate infusion.  Journal of Physiology, Vol.544, Nr.3, p.963-975  Not GLP, Published	N	-
A6.2_03	Philp, A., Macdonald, A.L., Watt, P.W.	2005	Lactate – a signal coordinating cell and systemic function. The Journal of Experimental Biology, Vol.208, p.4561- 4575 Not GLP, Published	N	-
A6.2_04	Connor, H. Woods, H.F	1982	Metabolic acidosis.  Pitman Books Ltd London (Ciba Foundation symposium 87) p. 214-234  Not GLP, Published	N	-
A6.4_01	Matsushima, Y., Onodera, H., Nagaoka, T., Todate, A., Shibutani, M., Maekawa, A.,	1989	Subchronic Oral Toxicity study of Calcium lactate in F344 Rats Bulletin of the National Institute of Hygienic Sciences, Tokyo (Eisei Shikenjo Hokuku ) Vol. 107: pp 78-83	N	-

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Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
	Kurokawa, Y., Hayashi, Y.		Not GLP, Published		
A6.5_01	Maekawa, A., Matsushima, H., Onodera, H., Shibutani, M., Yoshida, J., Kodama, Y., Kurokawa, Y., Hayashi, Y.	1991	Long-term carcinogenicity/carcinogenicity study of calcium lactate in F344 rats Food and Chemical Toxicology, Vol. 29, No. 9: pp 589-594 Not GLP, Published	N	-
A6.6_01 Is a cross- reference to A6.1.4-11	Andersen, F.A.	1997	Safety assessment of glycolic acid, ammonium, calcium, potassium, and sodium glycolate, methyl, ethyl, ptopyl, and butyl glycolate, and lactic acid, ammonium calcium, potassium, sodium, and TEA-lactate, methyl, ethyl, isopropyl, and butyl lactate, and lauryl, myristyl, and cetyl lactate  Cosmetic Ingredients Review, final report.  International Journal of Toxicology, Vol.17, Suppl.1  Not GLP, Published	N	-
A6.6_02*	Ishidate, M. Jr., Sofuni, T., Yoshikawa, K., Hayashi, M., Nohmi, T., Sawada, M., Matsuoaka, A.	1984	Primary mutagenicity screening of food additives currently used in Japan. Food Chem. Tox. Vol. 22, p. 623-636 Not GLP, Published	N	-
A6.6.1_01	Demerec, M., Bertani, G., Flint, J.	1951	A survey of chemicals for mutagenic action on E.coli The American Naturalist, Vol. 85, no. 821: pp 119-136 Not GLP, Published	N	-
A6.6.1_02*	Al-Ani, F.Y., Al- Lami, S.K.	1988	Absence of mutagenic activity of acidity regulators in the Ames Salmonella/microsome test.  Mutation Research, Vol. 206, p. 467-470  Not GLP, Published	N	-
A6.6.2_01	Morita, T., Takeda, K., Okumura, K.	1990	Evaluation of clastogenicity of formic acid, acetic acid and lactic acid on cultured mammalian cells.  Mutation Research, Vol. 240, p. 195-202.  Not GLP, Published	N	-
A6.7_01 Is a cross reference to A6.5_01	Maekawa, A., Matsushima, H., Onodera, H., Shibutani, M., Yoshida, J., Kodama, Y., Kurokawa, Y., Hayashi, Y.	1991	Long-term carcinogenicity/carcinogenicity study of calcium lactate in F344 rats Food and Chemical Toxicology, Vol. 29, No. 9: pp 589-594 Not GLP, Published	N	-

Section No / Reference No	Author(s)	Year	Title. Source (where different from company) Company, Report No. GLP (where relevant) / (Un)Published	Data Protecti on Claimed (Yes/No	Owner
A6.7_02 Andersen, F.A.  Is a cross- reference to A6.1.4_11	1997	Safety assessment of glycolic acid, ammonium, calcium, potassium, and sodium glycolate, methyl, ethyl, ptopyl, and butyl glycolate, and lactic acid, ammonium calcium, potassium, sodium, and TEA-lactate, methyl, ethyl, isopropyl, and butyl lactate, and lauryl, myristyl, and cetyl lactate  Cosmetic Ingredients Review, final report. International Journal of Toxicology, Vol.17, Suppl.1  Not GLP, Published	N	-	
A7.1.1.2.1-01	A7.1.1.2.1-01 Hanstveit, A.O., Pullens, M.A.H.L.	1993	BOD and COD of the product L(+) lactic acid according to EC Test Guidelines C.8 and C.9 TNO Report nr. IMW-R 92/018 GLP, Unpublished	Y	Purac
A7.1.1.2.1_02	Hooftman, R.N., Hanstveit, A.O.,	1998	The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Chemosphere, Vol. 37, No. 7, pp. 1317-1333, Not GLP, Published	N	
A7.1.3	Baltussen, E	2008	Estimation of the adsorption coefficient (Koc) of lactic acid 93% aq on soil and on sewage sludge using high performace liquid chromatography (HPLC) Notox Document 489046, GLP, Unpublished	Y	Purac
A7.1.3	Sansone, F.J., Andrews, C.C., Okamoto, M.Y.	1987	Adsorption of short-chain organic acids onto nearshore marine sediments Geochim Cosmochim Acta, Vol. 51, pp. 1889-96, Not GLP, Published	N	
A7.4.1.1_01		1992	The acute toxicity of L(+) lactic acid to Brachydanio rerio (OECD Guideline No. 203)  GLP, Unpublished	Y	Purac
A7.4.1.1_02		1984	Acute toxicity of SY-83 to rainbow trout (Salmo gairdneri)  GLP, Unpublished	Y	Purac
A7.4.1.1_03		1984	Acute toxicity of SY-83 to bluegill sunfish (Lepomis macrochirus)  GLP, Unpublished	Y	Purac
A7.4.1.1_04	Hooftman, R.N.	1992	Evaluation of the toxicity of lactic acid and lactates to aquatic organisms TNO Report nr. IMW-R 92/256	Y	Purac

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A7.4.1.1_05	Saha, N.C., Bhunia, F., Kaviraj, A.	2006	Comparative toxicity of three organic acids to freshwater organisms and their impact on aquatic ecosystems Human and Ecological Risk Assessment, Vol. 12, No. 1: pp 192-202 Not GLP, Published	N	-
A7.4.1.1_06 Is a cross-reference to A7.1.1.2.1-02	Bowmer, C.T., Hooftman, R.N., Hanstveit, A.O., Venderbosch, P.W.M., Van der Hoeven, N.	1998	The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Chemosphere, Vol. 37, No. 7, pp. 1317-1333 Not GLP, Published	N	-
A7.4.1.2_01	Hooftman, R.N., Kauffman-Van Bommel, J.A., Van Drongelen- Sevenhuijsen, D.	1992	The acute toxicity of L(+) lactic acid to Daphnia magna (OECD Guideline No. 202, 48h) TNO Report nr. IMW-91-0076-01 GLP, Unplublished	Y	Purac
A7.4.1.2_02	Forbis, A.D., Burgess, D., Georgie, L.	1984	Acute toxicity of SY-83 to Daphnia magna ABC Inc. Report nr. #32148 GLP, Unpublished	Y	Purac
A7.4.1.2_03 Is a cross- reference to A7.1.1.2.1-02	Bowmer, C.T., Hooftman, R.N., Hanstveit, A.O., Venderbosch, P.W.M., Van der Hoeven, N.	1998	The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Chemosphere, Vol. 37, No. 7, pp. 1317-1333 Not GLP, Published	N	-
A7.4.1.2_04 Is a cross-reference to A7.4.1.1-04	Hooftman, R.N.	1992	Evaluation of the toxicity of lactic acid and lactates to aquatic organisms TNO Report nr. IMW-R 92/256 Not GLP, Unpublished	Y	Purac
A7.4.1.2_05 Is a cross- reference to A7.4.1.1-05	Saha, N.C., Bhunia, F., Kaviraj, A.	2006	Comparative toxicity of three organic acids to freshwater organisms and their impact on aquatic ecosystems Human and Ecological Risk Assessment, Vol. 12, No. 1: pp 192-202 Not GLP, Published	N	-
A7.4.1.3_01	Hanstveit, A.O., Oldersma, H.	1992	Effect of L(+) lactic acid on the growth of the alga Selenastrum capricornutum (OECD 201) TNO Report nr. IMW-91-0076-05 GLP, Unpublished	Y	Purac
A7.4.1.3_02 Is a cross- reference to A7.1.1.2.1-02	Bowmer, C.T., Hooftman, R.N., Hanstveit, A.O., Venderbosch, P.W.M., Van der Hoeven, N.	1998	The ecotoxicity and the biodegradability of lactic acid, alkyl lactate esters and lactate salts Chemosphere, Vol. 37, No. 7, pp. 1317-1333 Not GLP, Published	N	-
A7.4.1.3_03	Hooftman, R.N.	1992	Evaluation of the toxicity of lactic acid	Y	Purac

## L(+) Lactic Acid (PTs 2, 3 and 4)

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Is a cross- reference to A7.4.1.1-04			and lactates to aquatic organisms TNO Report nr. IMW-R 92/256 Not GLP, Unpublished		
A7.4.1.4_01 Bouwma	Bouwman, L.M.	2007	Activated sludge respiration inhibition test with PURAC HS 88 NOTOX Project nr. 483211 GLP, Unpublished	Y	Purac
A7.5.3.1.1_01	Beavers, J.B.	1984	An acute oral toxicity study in the bobwhite with SY-83 Wildlife International Ltd. Report nr. 203-103 Not GLP, Unpublished	Y	Purac
A7.5.3.1.2_01	Beavers, J.B. 5.3.1.2_01	1984	A dietary LC50 study in the bobwhite with SY-83 Wildlife International Ltd. Report nr. 203-101 Not GLP, Unpublished	Y	Purac
A7.5.3.1.2_02	Beavers, J.B.	1984	A dietary LC50 study in the mallard with SY-83 Wildlife International Ltd. Report nr. 203-102 Not GLP, Unpublished		
A7.5.4.1_01	Dingledine, J.	1985	A dermal contact LD50 study in honey bees with SY-83 Wildlife International Ltd. Report nr. 203-108 Not GLP, Unpublished	Y	Purac
A8_01	Putac Biochem	2004	Material Safety Data Sheet, Purac Biochem Ref. SD0010/2004-01, dated 6 April 2004, Not GLP, Published	N	

<sup>\*</sup> key studies