

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
FATTY ACID OXIDATION DISORDERS – COMMON PRODUCTS

METABOLIC FORMULA - REFERENCE GUIDE
 Nutrients based per serving unless stated otherwise

Product Name	Serving Size	% kcal from Fat	% of Total Fat (oils)	Fat (g)	MCFA (tot g)	LCFA (tot g)	MCFA (g/100g)	LCFA (g/100g)	%C18:2: %C18:3	C18:2 (g) ⁺	C18:3 (g) ⁺	C18:2 (g/100g)	C18:3 (g/100g)	Kcal	CHO (g)	Pro (g)
Lipisorb* (Mead)	8 oz	35%	85% MCT, 15% soy	13.4	11.4	2.1	n/a	n/a	8:01	1.1	0.16	n/a	n/a	320	38	13.6
Portagen [^] Pwd (Mead)	1 TB = 8.5 g	40%	86% MCT, 13% com, 1% other	2	1.7	0.31	19.7	3.3	8:01	0.16	0.004	1.9	0.04	40	4.6	1.4
Pregestimil ^{^^} Pwd (Mead)	1 TB = 8g	48%	55% MCT, 25% soy, 10% com, 10% high oleic	2.3	1.2	1.1	15.2	12.7	21:2	0.47	0.005	5.9	0.06	40	4.1	1.1
Tolerex Pwd (Novartis)	1 pkt = 80g	1%	100% safflower	0.4	0	0.4	0	0.5	1:00	0.004	0	0.005	0	300	68	6.2
Oils (USDA)																
Canola Oil	1 tsp**	100%	100% canola	4.5	0	4.5	0	100	21:11	0.91	0.42	20.3	9.3	40	0	0
Cod Liver	1 tsp	100%	100% cod	4.5	0	4.5	0	100	1:01	0.04	0.04	0.94	0.94	40	0	0
Corn Oil	1 tsp	100%	100% corn	4.5	0	4.5	0	100	61:01:00	2.6	0.03	58	0.7	40	0	0
Flaxseed	1 tsp	100%	100% flaxseed	4.5	0	4.5	0	100	14:22	0.63	1	14	35.1	40	0	0
MCT Oil	1 tsp	100%	100% MCT	4.5	4.5	0	100	0	0	0	0	0	0	37	0	0
Safflower	1 tsp	100%	100% safflower	4.5	0	4.5	0	100	17:00:3	0.06	0	14.4	0	40	0	0
Soybean	1 tsp	100%	100% soybean	4.5	0	4.5	0	100	54:07:00	1.8	0.23	40.2	5.1	34	0	0
Sunflower	1 tsp	100%	100% sunflower	4.5	0	4.5	0	100	04:00:2	0.16	0.009	3.6	0.19	40	0	0
Walnut	1 tsp	100%	100% walnut	4.5	0	4.5	0	100	0.5:0.1	2.3	0.47	52.9	10.4	40	0	0

*C18:2 = linoleic acid (n-6), C18:3 = linolenic acid (n-3) *liquid only ^ Poratgen:1 scoop = 9.4g ^^ Pregestimil:1 scoop = 8.8g **1 tsp oil = 4.5g
 Recommended Intake (% total energy): infants - >3% C18:2 & >0.3 - 1% C18:3 (AAP); adults- 5-10% C18:2 & 0.6-1.2% C18:3 (IOM)

11/03

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
AMINO ACID DISORDERS

METABOLIC FORMULA - REFERENCE GUIDE
 Nutrients based on 100 gm powder unless stated otherwise

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Isoleukinemia	I-Valex-1	Ross	480	15	21.7	53	infants/toddlers
	I-Valex-2	Ross	410	30	13	35	children/adults
	XLeu Analog	SHS	475	13	20.9	59	infants
	XLeu Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange flavored
	XLeu Maxamum	SHS	340	39	<1	45	children/adults (8+ yrs); no fat; orange flavored
Maple Syrup Urine Disease	Complex MSUD Drink Mix	Appl. Nutr.	413	25	15	45	children/adults (1+ yrs), vanilla
	Complex MSUD AA Bar	Appl. Nutr.	323	76.9	0	0	children/adults (1+ yrs); no or trace vit/min; chocolate
	Complex MSUD AA Blend	Appl. Nutr.	260	10	18	17	children/adults (1+ yrs); no fat, CHO, vit/min
	MSUD Diet Powder	Mead	485	8.1	20	63	infants/children; no Cr, Mo
	MSUD 1	Mead	280	41	0	29	infants; no fat, Se, Cr, Mo
	MSUD 2	Mead	300	54	0	21	children; no fat, Se, Cr, Mo
	BCAD 2	Mead	410	24	8.5	57	children/adults
	Ketonex-1	Ross	480	15	21.7	53	infants/toddlers
	Ketonex-2	Ross	410	30	14	35	children/adults
	MSUD Analog	SHS	475	13	20.9	59	infants
	MSUD Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange flavored
	MSUD Maxamum	SHS	340	39	<1	45	children/adults (8+ yrs); no fat; orange flavored
	Acerflex	SHS	395	20	17	40.5	children/adults (1+ yrs); pineapple flavored

07/03

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Glutamine Asialaria Type 1,	Glutarex-1	Ross	480	15	21.7	53	infants/toddlers
	Glutarex-2	Ross	410	15	13	35	children/adults
	XLys XTrp Analog	SHS	475	13	20.9	59	infants
	XLys XTrp Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange flavored
	XLys XTrp Maxamum	SHS	340	39	<1	45	children/adults (8+ yrs); no fat; orange flavored
Histid- id- emia	Hist 1	Mead	270	51	0	17	infants; no fat, Se, Cr, Mo
	Hist 2	Mead	300	67	0	5.4	children/adults; no fat, Se, Cr, Mo
Hemoglobinuria, Hypermethioninemia	Hom 1	Mead	280	52	0	15.9	infants; no fat, Se, Cr, Mo
	Hom 2	Mead	290	69	0	3.8	children; no fat, Se, Cr, Mo
	HCY 2	Mead	410	22	8.5	61	children/adults
	Hominex-1	Ross	480	15	21.7	53	infants/toddlers
	Hominex-2	Ross	410	30	14	35	children/adults
	XMet Analog	SHS	475	13	20.9	59	infants
	XMet Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange flavored
	XMet Maxamum	SHS	340	39	<1	45	children/adults (8+ yrs); no fat; orange flavored
	HCU Gel	Viraflo	340	42	0.1	43	children (1-8 yrs); no fat; unflavored, flavor sachets avail
	HCU Express	Viraflo	301	60	0.1	15	children/adults (8+ yrs); no fat; unflavored, flavor sachets avail
Def- fir- mia	Lys 1	Mead	280	48	0	21	infants; no fat, Se, Cr, Mo

07/03

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Phenylketonuria (page 1 of 2)	PhenylAde	Appl. Nutr.	400	25	13	42	children/adults; chocolate, vanilla, orange creme, strawberry
	PhenylAde AA Bar (per bar)	Appl. Nutr.	260	10	18	17	children/adults; no vit/min; chocolate, chocolate crisp, white chocolate
	PhenylAde AA Blend	Appl. Nutr.	232	76.9	0	0	children/adults; no fat, CHO, vit/min
	PhenylAde MTE AA Blend	Appl. Nutr.	232	76.9	0	0	children/adults; AA Blend plus Ca, P, Mg, Se, Cr, Mo
	PKU-1	Mead	270	50	0	17.4	infants; no fat, Se, Cr, Mo
	PKU-2	Mead	290	67	0	6.2	children; no fat, Se, Cr, Mo
	PKU-3	Mead	280	68	0	1.7	adolescents/adults; no fat, Se, Cr, Mo
	Phenyl-Free 1	Mead	500	16.2	26	51	infants/toddlers; no Cr, Mo;
	Phenyl-Free 2	Mead	410	22	8.6	60	children/adults;
	Phenyl-Free 2HP	Mead	390	40	6.3	44	children/adults; higher pro, lower kcal than Phenyl-
	Phenex-1	Ross	480	15	21.7	53	infants/toddlers
	Phenex-2-Unflavored	Ross	410	30	14	35	children/adults
	Phenex-2-Flavored	Ross	410	30	13.5	36	children/adults; vanilla

07/03

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
AMINO ACID DISORDERS

METABOLIC FORMULA - REFERENCE GUIDE
 Nutrients based on 100 gm powder unless stated otherwise

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Phenylketonuria (page 2 of 2)	XPhe Analog	SHS	475	13	20.9	59	infants
	XPhe Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange or unflavored
	XPhe Maxamum	SHS	301	39	<1	34	children/adults (8+ yrs); no fat; orange or unflavored
	Periflex- Unflavored	SHS	411	20	17	44.5	children/adults (1+ yrs)
	Periflex- Flavored	SHS	395	20	17	40.5	children/adults (1+ yrs); orange-pineapple flavored
	Phlexy-10 Drink Mix (per 20g sachet)	SHS	69	8.33	0	8.8	children/adults (1+ yrs); no fat, vit/min; tropical or apple-currant flavored
	Phlexy-10 Bar (per bar)	SHS	156	8.33	4.5	20.5	children/adults (1+ yrs); no vit/min
	Phlexy-10 Capsules (per 20 capsules)	SHS	33	8.33	0	0	children/adults (1+ yrs); no fat, CHO, vit/min
	Phlexy-10 Tablets (per 10 tablets)	SHS	38	8.33	0.2	0.7	children/adults (1+ yrs); no fat, CHO, vit/min
	PhlexyVits (per 7g dose)	SHS	1.7	0	0	0	children/adults (1+ yrs); no pro, fat, CHO, choline, Na, K, Cl; meets RDA 11+ yrs
	PKU Gel	Vitafo	340	42	0.1	43	children (1-8 yrs); no fat; unflavored, flavor sachets
PKU Express	Vitafo	301	60	0.1	15	children/adults (8+ yrs); no fat; unflavored, flavor s	
Propionic Acidemia ethylmalonic Aciduria	OS 1	Mead	280	42	0	27	infants; no fat, Se, Cr, Mo
	OS 2	Mead	300	56	0	18.9	children; no fat, Se, Cr, Mo
	Propimex-1	Ross	480	15	21.7	53	infants/toddlers
	Propimex-2	Ross	410	30	13	35	children/adults
	XMTVI Analog	SHS	475	13	20.9	59	infants
	XMTVI Maxamaid	SHS	350	25	<0.05	62	children (1-8 yrs); no fat; orange flavored

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
AMINO ACID DISORDERS

METABOLIC FORMULA - REFERENCE GUIDE
 Nutrients based on 100 gm powder unless stated otherwise

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Ornithine	Energy Option Protein Free Bars (per bar)	Appl. Nutr.	190	0.6	10	18	trace pro, vit/min; chocolate, mint, white chocolate
	Product 80056	Mead	90	0	23	72	no pro, Cr, Mo
	Moducal	Mead	375	0	0	94	no pro, fat, vit/min
	PFD2	Mead	400	0	4.8	88	children/adults; no pro;
	Pro-Phree	Ross	410	trace	28	65	infants/toddlers; no pro
	ProViMin	Ross	312	73	1.4	2	no Cr, Mo; trace CHO; very low fat
	RCF (per 100 mL conc. Liq.)	Ross	81	4	7.2	0.008	no CHO, Cr, Mo; soy-based
Super Soluble Duocal	SHS	492	0	22.3	72.7	children/adults (1+yrs); high kcal; no pro, vit/min	

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
AMINO ACID DISORDERS

METABOLIC FORMULA - REFERENCE GUIDE
 Nutrients based on 100 gm powder unless stated otherwise

	Product Name	Company	Kcal	Pro Equiv. (gm)	Fat (gm)	CHO (gm)	Usage / Comments
Tyrosinemia	TYR 1	Mead	270	47	0	21	infants; no fat, Se, Cr, Mo
	TYR 2	Mead	300	63	0	10.7	children; no fat, Se, Cr, Mo
	Product 3200AB	Mead	432		18	60	infant; no Cr, Mo
	TYROS 2	Mead	410	22	8.5	60	children/adults
	Tyrex-1	Ross	480	15	21.7	53	infants/toddlers
	Tyrex-2	Ross	410	30	14	35	children/adults
	XPhe, XTyr Analog	SHS	475	13	20.9	59	infants
	XPhe, XTyr Maxamaid	SHS	350	25	<0.5	62	children (1-8 yrs); no fat; orange flavored
	XPTM Analog	SHS	475	13	20.9	59	infant
	Tyr Gel	Vitaflor	340	42	0.1	43	children (1-8 yrs); no fat; unflavored, flavor sachets
Tyr Express	Vitaflor	301	60	0.1	15	children/adults (8+ yrs); no fat; unflavored, flavor s	
Urea Cycle Disorder	UCD 1	Mead	250	56	0	5.8	infants; no fat, Se, Cr, Mo
	UCD 2	Mead	290	67	0	4.4	children; no fat, Se, Cr, Mo
	WND 2	Mead	410	8.2	10.2	71	children/adults
	Cyclinex-1	Ross	510	7.5	24.6	57	infants/toddlers
	Cyclinex-2	Ross	440	15	17	45	children/adults
	Complete AA Mix	SHS	328	82	0	0	no fat, CHO, vit/min

07/03

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
HOUSEHOLD MEASUREMENTS

METABOLIC FORMULA - REFERENCE GUIDE

Product	Company	1 Scoop (g)	1 TB (g)	1/4 Cup (g)	1/2 Cup (g)	1 Cup (g)	O
Complex MSUD Amino Acid Blend	Appl. Nutr.	13	9.5	40	80		
Complex MSUD Drink Mix – Vanilla	Appl. Nutr.	40	8	30	65	130	
PhenylAde AA/ MTE AA Blend	Appl. Nutr.	13	9.5	40	80		1 pouc
PhenylAde - Choc, Orange, Straw., Vanilla	Appl. Nutr.	40	8	30	65	130	
Calcilo-XD	Ross		8.5	28	57	103	
Cyclinex- 1	Ross		8	26	53	105	1/3
Glutarex-1	Ross		7	26	53	105	1/3
Phenex-2-Vanilla	Ross		9	30	59	116	1/3
Pro-Phree	Ross		7	29	57	108	1/3
ProViMin	Ross		2.9	11		44	2/3
ROSS - 1 (all not otherwise listed*)	Ross		7	26	53	105	1/3
ROSS - 2 (all not otherwise listed**)	Ross		8	32	61	117	1/3
Acerflex	SHS		8	30	65	130	
Complete AA Mix	SHS		9.5				1tsp
Essential AA Mix	SHS		9				1tsp
Analog (all***)	SHS	5	8	30	55	115	
Maxamaid (all***)	SHS		9	35	70	145	
Maxamum (all***)	SHS		9	35	70	145	
Periflex	SHS		8	30	65	130	
Super Soluble Duocal	SHS		8.5	30	56	117	

*ROSS-1 = Glutarex-1, Hominex-1, I-Valex-1, Ketonex-1, Phenex-1, Propimex-1, Tyrex-1

** ROSS-2 = Cyclinex-2, Glutarex-2, Hominex-2, I-Valex-2, Ketonex-2, Phenex-2-Unflavored, Propimex-2, Tyrex-2

*** SHS Analog, Maxamaid & Maxamum = XLys XTrp, XMet, XLeu, XPhe, XMTVI, XMet, XCys, XPhe XTyr, XPTM

07/03

NEW ENGLAND CONSORTIUM OF METABOLIC PROGRAMS
HOUSEHOLD MEASUREMENTS

METABOLIC FORMULA - REFERENCE GUIDE

Product	Company	1 Scoop (g)	1 TB (g)	1/4 Cup (g)	1/2 Cup (g)	1 Cup (g)	O
BCAD 2	Mead	16.8	10.8			173	
HCY 2	Mead	17.3	11.1			178	
Moducal	Mead		8	32	64	128	
MSUD Diet Powder	Mead	11	8.4			135	
PFD 2	Mead	15.6	10			160	
Phenyl-Free 1	Mead	15.2	9.8			156	
Phenyl-Free 2	Mead	17.6	11.3			181	
Phenyl-Free HP	Mead	16.3	10.5			168	
PKU-1, 2, 3	Mead		9				
Portagen	Mead	9.4	8.5			136	
Pregestimil	Mead	8.8	8			128	
Product 3200AB -Low Phe/Tyr Pwd	Mead	9.6	8.7			139	
Product 80056 -Pro Free Pwd	Mead	no scoop	9.4			111	
TYROS 2	Mead	17	10.9			175	
UCD 1, 2	Mead		9				
WND 2	Mead	17.2	11			176	

Created by Kimberly Cobb, MS RD.
In partnership with Children's Hospital Boston / New England Consortium of Metabolic Programs.
Not responsible for product information.

To verify product information, please contact the manufacturing company.

Company Contact Information:

Applied Nutrition:	(800) 605-0410
Mead Johnson Nutritionals:	(812) 429-6399
ROSS Metabolics:	(800) 986-8755
SHS North America:	(800) 365-7354
Novartis Nutrition:	(800) 333-3785 option 3