別紙2 原材料のTDN又はMEに関する申請書

	VIONIE - 																	
1. 名称	2ーデア	2ーデアミノー2-ヒドロキシメチオニン																
2. 定義	飼料添カ	詞料添加物であること																
3. 製造方法及 び製造工程	製造フロ	製造フローを別紙3に示す																
4. 対象家畜 (1)使用目的	すべての	すべての家畜等																
(2)使用割合	メチオニ	メチオニンの補給																
又は使用量	0.01~0	. 3%																
5.成分量	水分		粗たん白質 粗脂肪		脂肪	可溶無窒素物		粗繊維		粗灰分		総エネルギー, kcal/kg		備考				
(1)一般成分	10. 9		0.0 0.		. 0 89. 1		9. 1	0.0		0.0		4995		別紙4及び資料1				
(2)消化率 可消化成分	鶏			鶏	i				豚			4				備考		
	CP	Fat	Fib	NFE	TDN	代謝率	ME, kca	CP	Fat	Fib	NFE	TDN	CP	Fat	Fib	NFE	TDN	
	0.0	0.0	0.0	100. 0	_	79.9	3991	0.0	0.0	0.0	100. 0	89. 1	0.0	0.0	0.0	100. 0	89. 1	
(3)特殊成分	なし	-														-		
6. 備考	1, 可溶	性無窒素	物(89.1	%)は、	資料3、	および別	刂紙4の2	25点の分	析値の平	均値							-	
	2. 総エ	ネルギー	· (4995ko	al/kg)	は、資料	↓1のGE、	20.9MJ,	/kg (20.	9MJ×0.2	39cal/J)	を用い	た						
									を用いた	:								
								0.9)を月										
	5. 鶏ME	(3991kc	al/kg) l	よ、資料	 1の家禽 	のAME n	、16.7M	j/kg (16	.7MJ/kg×	<u>0. 239</u> ca	<u>al/J)</u> を	用いた						

別紙4. 分析値(資料3より)

		ŃFE		水分
ロット番号	DL-Metionine	Hydroxy	Analogue	100-NFE
CB17143221			89. 0	11.0
CB17143222			89. 0	11.0
CB17159123			89. 2	10. 8
CB17202221			89. 1	10. 9
CB17307122			89.4	10.6
CB17322221			89. 0	11.0
CB17327221			88. 9	11.1
CB17333221			89. 2	10. 8
CB17336222			89. 1	10. 9
CB17337122			89. 0	11.0
CB17338221			88. 9	11.1
CB17339222			89. 4	10.6
CB17342222			89. 1	10. 9
CB17343123			88. 9	11. 1
CB17343221			88. 9	11.1
CB17344121			89.0	11.0
CB17347221			89.1	10. 9
CB17349222			89.2	10. 8
CB17351221			88.9	11.1
CB17352123			89.1	10. 9
CB17353222			89.1	10.9
CB17354121			89.0	11.0
CB17356122			89.0	11.0
CB17358222			88.9	11.1
CB17360121			89.0	11.0
n			25	25
av			89.1	10.9
stdev			0.14	0. 14



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17143221
DATE OF MANUFACTURE:	23 May 2017
DATE OF ANALYSIS:	24 May 2017
EXPIRATION DATE:	23 May 2022
DATE OF PACKAGING:	23 May 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17147122
DATE OF MANUFACTURE:	27 May 2017
DATE OF ANALYSIS:	28 May 2017
EXPIRATION DATE:	27 May 2022
DATE OF PACKAGING:	27 May 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17159123
DATE OF MANUFACTURE:	08 June 2017
DATE OF ANALYSIS:	10 June 2017
EXPIRATION DATE:	08 June 2022
DATE OF PACKAGING:	08 June 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.2

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17202221
DATE OF MANUFACTURE:	21 July 2017
DATE OF ANALYSIS:	23 July 2017
EXPIRATION DATE:	21 July 2022
DATE OF PACKAGING:	21 July 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17307122
DATE OF MANUFACTURE:	03 November 2017
DATE OF ANALYSIS:	04 November 2017
EXPIRATION DATE:	03 November 2022
DATE OF PACKAGING:	03 November 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.4

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17322221
DATE OF MANUFACTURE:	18 November 2017
DATE OF ANALYSIS:	19 November 2017
EXPIRATION DATE:	18 November 2022
DATE OF PACKAGING:	18 November 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17327221
DATE OF MANUFACTURE:	23 November 2017
DATE OF ANALYSIS:	24 November 2017
EXPIRATION DATE:	23 November 2022
DATE OF PACKAGING:	23 November 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17333221
DATE OF MANUFACTURE:	29 November 2017
DATE OF ANALYSIS:	30 November 2017
EXPIRATION DATE:	29 November 2022
DATE OF PACKAGING:	29 November 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.2

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17336222
DATE OF MANUFACTURE:	02 December 2017
DATE OF ANALYSIS:	03 December 2017
EXPIRATION DATE:	02 December 2022
DATE OF PACKAGING:	02 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17337122
DATE OF MANUFACTURE:	03 December 2017
DATE OF ANALYSIS:	04 December 2017
EXPIRATION DATE:	03 December 2022
DATE OF PACKAGING:	03 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17338221
DATE OF MANUFACTURE:	04 December 2017
DATE OF ANALYSIS:	05 December 2017
EXPIRATION DATE:	04 December 2022
DATE OF PACKAGING:	04 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17339222
DATE OF MANUFACTURE:	05 December 2017
DATE OF ANALYSIS:	06 December 2017
EXPIRATION DATE:	05 December 2022
DATE OF PACKAGING:	05 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.4

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17342222
DATE OF MANUFACTURE:	08 December 2017
DATE OF ANALYSIS:	09 December 2017
EXPIRATION DATE:	08 December 2022
DATE OF PACKAGING:	08 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17343123
DATE OF MANUFACTURE:	09 December 2017
DATE OF ANALYSIS:	10 December 2017
EXPIRATION DATE:	09 December 2022
DATE OF PACKAGING:	09 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17343221
DATE OF MANUFACTURE:	09 December 2017
DATE OF ANALYSIS:	10 December 2017
EXPIRATION DATE:	09 December 2022
DATE OF PACKAGING:	09 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17344121
DATE OF MANUFACTURE:	10 December 2017
DATE OF ANALYSIS:	11 December 2017
EXPIRATION DATE:	10 December 2022
DATE OF PACKAGING:	10 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/M.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17347221
DATE OF MANUFACTURE:	13 December 2017
DATE OF ANALYSIS:	14 December 2017
EXPIRATION DATE:	13 December 2022
DATE OF PACKAGING:	13 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17349222
DATE OF MANUFACTURE:	15 December 2017
DATE OF ANALYSIS:	16 December 2017
EXPIRATION DATE:	15 December 2022
DATE OF PACKAGING:	15 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.2

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17351221
DATE OF MANUFACTURE:	17 December 2017
DATE OF ANALYSIS:	18 December 2017
EXPIRATION DATE:	17 December 2022
DATE OF PACKAGING:	17 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17352123
DATE OF MANUFACTURE:	18 December 2017
DATE OF ANALYSIS:	19 December 2017
EXPIRATION DATE:	18 December 2022
DATE OF PACKAGING:	18 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17353222
DATE OF MANUFACTURE:	19 December 2017
DATE OF ANALYSIS:	20 December 2017
EXPIRATION DATE:	19 December 2022
DATE OF PACKAGING:	19 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.1

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17354121
DATE OF MANUFACTURE:	20 December 2017
DATE OF ANALYSIS:	21 December 2017
EXPIRATION DATE:	20 December 2022
DATE OF PACKAGING:	20 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17356122
DATE OF MANUFACTURE:	22 December 2017
DATE OF ANALYSIS:	24 December 2017
EXPIRATION DATE:	22 December 2022
DATE OF PACKAGING:	22 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17358222
DATE OF MANUFACTURE:	24 December 2017
DATE OF ANALYSIS:	25 December 2017
EXPIRATION DATE:	24 December 2022
DATE OF PACKAGING:	24 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	88.9

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES



DATE:	04 November 2018
PRODUCT:	20000105
PRODUCT DESCRIPTION:	ALIMET BULK
LOT NUMBER:	CB17360121
DATE OF MANUFACTURE:	26 December 2017
DATE OF ANALYSIS:	26 December 2017
EXPIRATION DATE:	26 December 2022
DATE OF PACKAGING:	26 December 2017

CERTIFICATE OF ANALYSIS

CHARACTERISTIC	SPECIFICATION	RESULTS
Appearance	Clear, amber to dark amber liquid	Pass
DL-Methionine Hydroxy Analogue, wt%	>=88	89.0

Approved by:

/m.B.

STEVEN M. BASS EXEC. MANAGER OPERATIONS SERVICES

合成アミノ酸

項目	塩酸L-リジン	L-スレオニン	L-トリプトファン	DL-メチオニン	メチオニン水酸化体
現物として					
乾物(%)	99.5	99.5	99.5	99.5	88.0
粗たん白質(%) ¹	95.4	73.1	85.3	58.4	0 ²
リジン(%)	79.8				
スレオニン(%)		99			
トリプトファン(%)			98.5		
メチオニン(%)				99.0	? ³
総エネルギー(MJ/kg)	20.0 ⁴	17.2	27.5	23.6	20.9 ⁵
(kcal/kg)	4,780	4,111	6,573	5,640	4,995
豚(肥育豚、母豚)					
可消化エネルギー(MJ/kg)	20.0	17.2	27.5	23.6	20.9
(kcal/kg)	4,780	4,111	6,573	5,640	4,995
代謝エネルギー(MJ/kg)	20.0	15.8	25.8	22.4	19.8
(kcal/kg)	4,780	3,776	6,166	5,354	4,732
正味エネルギー(MJ/kg)	14.1	12.3	20.0	17.3	15.3
(kcal/kg)	3,370	2,940	4,780	4,135	3,657
鶏(雄鶏、プロイラー)					
見かけの代謝エネルギー(MJ/kg)	14.0	12.6	21.7	19.4	16.7
(kcal/kg)	3,346	3,011	5,186	4,637	3,991
ウサギ					
可消化エネルギー(MJ/kg)	20.0	17.2	27.5	23.6	20.9
(kcal/kg)	4,780	4,111	6,573	5,640	4,995

(1 ジュール=0.239 カロリーとして計算)

化学合成あるいは発酵により製造される市販の上記アミノ酸は、単胃動物では完全に吸収 されると仮定した。これは、豚の標準化された消化率と家禽の真の消化率が100%であるこ とを意味する。しかし、メチオニン水酸化体の場合にはこの仮説は適応されない(注3参 照)。

- 1 値は窒素含量に 6.25 を乗じた値である。これらの製品はタンパク質を含まないが、通常のタンパク質源と遊離の アミノ酸の両方を含む飼料の最終的なたん白率含量を計算するときにこの値が役立つ。
- 2 この製品は、メチオニンのアミノ基が水酸基で置換されているので、窒素を含まず、よってタンパク質を含まない。
- 3 厳密に言うと、メチオニン水酸化体はメチオニンを含んでおらず、このアミノ酸に変換される必要がある。完全に 変換された場合、この変換の理論値は、100gの製品(乾物 88%)で 87g となる。この製品のうちの 20~25%は単 量体ではなく、数個の単量体の重合したものであることに注意すべきで、このことがメチオニンと栄養的に等価で あるかどうかに影響している。試験研究では、メチオニンに比べたこの製品の栄養価は、試験方法、測定項目、解 析手法により、大きく変動(60~100%)している。結果として、100gのこの製品(乾物 88%)のメチオニン等価 は、52g から 87g の間で変動することとなる。
- 4 結晶リジンから計算した値
- 5 結晶メチオニンから計算した値