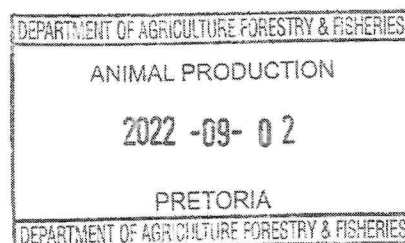




agriculture, forestry & fisheries

Department:
Agriculture, Forestry and Fisheries
REPUBLIC OF SOUTH AFRICA



VETERINARY MASTER PERMIT NO: NO MASTER

VALID FROM: 2022/09/02

EXPIRY DATE: 2023/03/01

IMPORTATION OF SEMEN: AUTHORISATION NO. S0298/22-1

(Issued in terms of section 16 of the Animal Improvement Act, 1998)

Expiry date: 2023/03/01 for Authorization No. S0298/28-1

Authorization is hereby granted to: SEMEX SOUTH AFRICA (PTY) LTD.

of: PO BOX 1030, SOMERSET WEST, 7129.

for the importation BOVINE semen of the ANGUS breed

from (country of origin): CANADA.

Semen will be cleared by:
SEMEX SOUTH AFRICA (PTY) LTD.

Name of Animals	Reg. No.	Number of doses
MUSGRAVE 316COLOSSAL 137	18774441	200
S A V JESSE JAMES	19860276	50

THE SEMEX ALLIACE, 5653 HIGHWAY 6 NORTH, GUELPH, ONTARIO, CANADA, N1H 6J2.

TOTAL: 250

CONDITION

- Certification by the exporting country that the number of unfrozen (live) spermatozoa per-dose complies with the minimum amount specified on the reverse side of this document.
- DNA profiles must be provided to the Registrar of Animal Improvement, and the relevant Breeders Society before release from quarantine, if not available at time of importation.

This authorization is subject to the compliance with the veterinary requirements set out in the attached permit and is also subject thereto that the intended importation meets with all the provisions of the said Act. This authorization does not exempt the importer from the provisions of any other law. This authorization may withdrawn by the Registrar should any false information be discovered in the application. This authorization is also not transferable. Imported semen shall under no circumstances be transferred, sold, given or donated to may other person or body unless prior written approval from the Registrar has been obtained. Any such approval shall be considered as new application for the importation of semen.

REGISTRAR: ANIMAL IMPROVEMENT

DATE: 2022/09/02

Canadian Angus Association
Tabulated Pedigree (Not a Certificate of Registration)

Name: MUSGRAVE 316 COLOSSAL 137		Reg #: 2021884	Defect Test Result(s): Free-DM, Free-AM, Free-CA, Free-OH,
Born: January 04, 2017		Tattoo: Right Ear IMP 137E	Male
Parentage: Parent Verified		Breeder: 5278256, Musgrave Angus, 29716 380th St. New Salem IL 62357	
		Current Owner: Semex Beef, Peak Dot Ranch Ltd,	

* Elite	G D A R TRAVELER 71	(IMP 786W)	725786 *	AMF CAF OHF NHF DDF
** Premier Dam	SITZ TRAVELER 8180	(IMP 7940Z)	866597 *	DDF
	SITZ EVERELDA ENTENSE 1137		[US] 10912116	
	S A V FINAL ANSWER 0035	(IMP 035K)	[US] 1061938 *	OSF DDF
	BON VIEW BANDO 598	(IMP 142X)	[US] 780142 *	OHF NHF OSF DDF
	S A V EMULOUS 8145		[US] 13094078	CAF
	S A V SKY EMULOUS 2124		[US] 11586266	
	CONNEALY CAPITALIST 028	(IMP 028X)	2013655	AMF CAF NHF OSF DDF
	B A R EXT TRAVELER 205	(IMP 2829E)	979739	DDF
	C R A BEXTOR 872 5205 608	(IMP 872H)	1167526	OSF DDF
	CRA LADY JAYE 608 498 S EASY		[US] 12559297	
	PRIDES PITA OF CONANGA 8821		[US] 16204878	CAF DDF
	TRAVELER OF CONANGA		[US] 11182742	
	PRIDES TRAV OF CONANGA 6499		[US] 12693799	
	PRETTY PET OF CONANGA		[US] 12015562	
Sire	LD CAPITALIST 316	(IMP 1316A)	2025732	OHF NHF OSF DDF
	TEHAMA BANDO 155	(IMP 499D)	[US] 9891499	AMF CAF OHF NHF DDF
	G A R PRECISION 1680	(IMP 1680Z)	1061388	AMC NHC OSF
	9J9 G A R 856		[US] 10895323	NHF
	C A FUTURE DIRECTION 5321	(IMP 3607E)	867594	NHC OSF DDF
	S A F POWER FIX		[US] 10809778	DDF
	C A MISS POWER FIX 308		[US] 12054694	AMF
	C A LADY EIGHT 1015		[US] 11669779	
	LD DIXIE ERICA 2053		[US] 14407230	AMF NHF
	LD ROYCE ONAROLL 810		[US] 13151664	
	LD DIXIE ERICA OAR 0853		[US] 13876953	
	DIXIE ERICA OF R R 8553		[US] 13176022	
	KMK ALLIANCE 6595 187		1191922 *	OSF DDF
	CONNEALY CONSENSUS	(IMP 87J)	[US] 15513367	DDF
	BLINDA OF CONANGA 004		[US] 14220093	
	CONNEALY EARNAN 076E		1767036	DDF
	CONNEALY TOBIN		[US] 15497354	AMF OHF NHF DDF
	BRAZILA OF CONANGA 3991 839A		[US] 16246696	CAF
	BREESHA OF CONANGA 1251		[US] 14527868	CAF
	MUSGRAVE BIG SKY	(IMP 3310A)	1891870	DDF
	BON VIEW BANDO 598	(IMP 142X)	780142 *	OHF NHF OSF DDF
	S A F 598 BANDO 5175	(IMP 05175E)	994198 *	AMF CAC OSF DDF
	S A F ROYAL LASS 1002		[US] 11560533	
	SAV PRIMROSE 7861	(IMP 5175T)	1949546	CAF
	SITZ TRAVELER 9929	(IMP 9929Y)	913117	
	S A V PRIMROSE 8244		[US] 13095537	
	S A V PRIMROSE STAR 1815		[US] 11405110	
Dam	MUSGRAVE LADY BARBARA 545		[US] 18129640	
	CONNEALY PRODUCT 568		[US] 15148584	
	CONNEALY FINAL PRODUCT	(IMP 7212T)	1643843	DMF AMF CAF NHF DDF
	EBONISTA OF CONANGA 471		[US] 14220178	DDF
	MCATL PURE PRODUCT 903-55	(IMP 903W)	1596945	DDF
	WAR ALLIANCE 9126 6006	(IMP 126J)	1239027	OSF DDF
	M A ESTA 55-252		[US] 15171854	CAF
	R A ESTA R243		[US] 14192371	
	MUSGRAVE LADY BARBARA 272		[US] 17257729	
	BON VIEW NEW DESIGN 878	(IMP 878H)	981361 *	OSF DDF
	CONNEALY REFLECTION		[US] 14528330	AMF CAF OHF NHF DDF
	HAPPY GRILL OF CONANGA 6260		[US] 13447172	
	MCATL LADY BARBARA 1448-963		[US] 16147705	
	H S A F BANDO 1961	(IMP 1961L)	1868250	OSF DDF
	MA LADY BARBARA 963		[US] 14524937	
	LADY BARBARA 167 M M		[US] 12930542	

I hereby certify this is a true copy of the Pedigree for said animal as reflected in the records maintained by the Canadian Angus Association.	Issue Date April 10, 2019 Myles Immerkar, CEO, Canadian Angus Association
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Batch Detail Report

Batch : 11416U
 Owner : M Cooke
 Farm : Semex South Africa
 Account : SEME01
 Origin : PRIVATE
 Invoice To : Owner

Created : 2022-12-05

SAMPLE	ANIMAL	SPECIES	BREED	DAM	SIRE	TEST	Tissue Type	RESULT	INVOICE
11416U001	AN10737 (MUSGRAVE 316 COLOSSAL 137) (M,23)	CATTLE	ANGUS (23)			SNP50_C	Semen Straw	HER01 : Repeat sample is requested	
11416U002	AN0181 (S A V JESSE JAMES) (M,23)	CATTLE	ANGUS (23)			SNP50_C	Semen Straw	IG50 : IGENITY 50K	

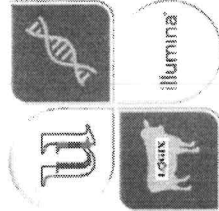
Report Date : 09-Jan-2023 10:24

Page : 1

Unistel report these results on the premise that the biological samples received are from the individuals nominated by the owner/ breeder/ requestee. This Certificate replaces all previously issued certificates.
Disclaimer: While every reasonable effort is made to prevent faulty results, Unistel Medical Laboratories do not accept any responsibility for any losses that may occur as a result of human or technical error. The results relate only to the samples tested. Should gross negligence be proven, the claim shall not exceed the value of the contract

Please note: some STR profiles used in parentage analysis may have been sourced from another laboratory. While every reasonable effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for parentage mismatches due to incompatible marker scoring strategies between laboratories. Unistel Medical Laboratories participates in ISAG comparison testing and therefore incorporates international scoring standards in the generation of our STR profiles.

CHARNÉ ROSSOUW
 DIVISION MANAGER



Unistel Medical Laboratories Genetic Report

BOVINESNP50-24 v3 BeadChip

M Cooke
Semex South Africa
Angus
AN10737
11727U001

Animal Tested:

Semen

Sample type:

Description	Mutations	Status	Description	Mutations Tested	Status
Coat colouration	MC1R - e	E+/E+	Meat	Calpain 1 - 316	G/C
	MC1R - ED	Ed/E+	Tenderness	Calpain 1 - 4751	C/T
	Dun Dexter Dilution (TYPR1)	+/+		Calpain 1 - 530	G/G
	Silver Dilution type 1	+/+		Calpastain - 282	C/C
	Silver Dilution type 2	+/+		Calpastain - 2870	G/G
	Myostatin C313Y	Clear		Calpastain - 2959	A/A
Myostatin Status	Myostatin E226X	Clear	Milk status	Beta Casein - 245	A2/A2
	Myostatin E291X	Clear		Beta Casein - 411	B/B
	Myostatin nt419	Clear		Kappa Casein - 352	A/A
	Myostatin nt821	Clear		Kappa Casein - 467	A/A
	Myostatin Q204X	Clear		Kappa Casein - 470	B/B
	Myostatin D182N	Clear		Kappa Casein - 506	A/A
	Myostatin F94L	Clear		Kappa Casein - 526	A/A
	Myostatin S105C	Clear	Milk quality	Growth Hormone F279Y	Increased milk, casein & lactose yield; decreased protein & fat yield
	E7 mutation	Clear		Growth Hormone 2141	Decreased milk protein & fat yield
	E13 mutation	Clear		Growth Hormone 2291	Normal milk fat yield, fat & protein %
	E18 mutation	Clear		ABCG2 - protein yield milk	Normal fat, protein & milk yield; normal fat & protein %
Hornedness	Polled Celtic	Homozygous Polled		AcylCoA - milk fat percentage	Normal fat, protein & milk yield. Normal fat & protein %.
	SLICK	No added resistance		Trimethylaminuria excess in milk	Clear
Heat Tolerance	Pinkeye resistance	Reduced risk 8-13%		Yellow milk fat	Normal yellow fat
Eye Disorders	Osteopetrosis	Clear			
	Alpha Mannosidosis 961	Clear			
Bone Disorder	Neuropathic hydrocephalus	Clear			
	Developmental Duplication	Clear			
Breed mutations	Mulefoot	Clear			

Disclaimer: Unistel reports these results on the premise that the biological samples received are from the individuals nominated by the owner/breeder/requester. This certificate replaces all previous issued certificates. While every effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for any losses that may occur as a result of human or technical error. Should gross negligence be proven, the claim shall not exceed the value of the contract.



Batch Detail Report

Batch : 11727U
Owner :M Cooke
Farm :Semex South Africa
Account : SEME01
Origin : PRIVATE
Invoice To : Owner

Created : 2023-01-11

SAMPLE	ANIMAL	SPECIES	BREED	DAM	SIZE	TEST	Tissue Type	RESULT	INVOICE
11727U001	AN10737 (Musgrave 316 Colossal 137) (M,22)	CATTLE	BLACK ANGUS (22)			SNP50_C	Semen Straw	IG50 : IGENITY 50K	

Report Date : 09-Feb-2023 10:24

Page : 1

Unistel report these results on the premise that the biological samples received are from the individuals nominated by the owner/ breeder/ requestee. This Certificate replaces all previously issued certificates.

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Please note: some STR profiles used in parentage analysis may have been sourced from another laboratory. While every reasonable effort is made to prevent incorrect results, Unistel Medical Laboratories does not accept any responsibility for parentage mismatches due to incompatible marker scoring strategies between laboratories. Unistel Medical Laboratories participates in ISAG comparison testing and therefore incorporates international scoring standards in the generation of our STR profiles.

CHARNÉ ROSSOUW
DIVISION MANAGER

Official DNA and Genetic Condition Record

American Angus Association

3201 Frederick Ave. Saint Joseph, MO 64506
(816) 383-5100 Fax: (816) 233-9703



As of: 10/17/2018

Reg Num	Name of Animal	Tag/Tatt	Sex	Birth Date	Registration Number		Results
					Sire	Dam	
AAA 18774441	Musgrave 316 Colossal 137	137	B	01/04/2017	AAA 17666102	316 AAA 18129640	545 Qualified
					AAA 17666102	316	Qualified
						AAA 18129640	545 Qualified

AM Status	NH Status	CA Status	OS Status	M1 Status	OH Status	D2 Status	DD Status
AMIF	NHF	CAF	OSF	M1F	OHF	D2F	DDF

This animal has been tested using SNP technology through Angus Genetics Inc. @ (AGI)

We hereby certify that this is a true copy of the DNA Parentage report on file for the bull, Musgrave 316 Colossal 137 #AAA 18774441 as reflected on the records of the American Angus Association.

Allen Moczygemba

Allen Moczygemba, Chief Executive Officer





DNA Genotype Certificate

Delta Genomics
4424 TEC Centre, Enterprise Sq.
10230 Jasper Ave., Edmonton, Alberta, T5J 4P6, Canada
Phone: (780) 492-2538 Email: Michelle.Miller@deltagenomics.com

Semex 4/11/2022

Geno ✓ be repeated

Permit ✓

Report ✓

Case No. DG18B026652-1

ANIMAL INFORMATION

Species BOVINE
Breed ANGUS
Name MUSGRAVE 316 COLOSSAL 137
Registration No. 2021884

Gender MALE
Date of Birth 04-January-2017
Tag 137
Tattoo IMP 137E

Alternate Identification:

GENOTYPE RESULTS Adjusted to ISAG (1995) standard

AVAILABLE AT THE REGISTRY OFFICE

FILED AT TESTING LABORATORY

TGLA53	160 / 160
CYP21	191 / 220
SPS113	141 / 143
BM1818	258 / 266
TGLA48	/
MGTG4B	135 / 135
BM1824	178 / 182
RM067	90 / 102
BM2113	133 / 133

SPS115	248 / 248
TGLA126	115 / 115
TGLA122	151 / 151
INRA23	206 / 208
TGLA227	89 / 97
ETH225	144 / 148
ETH10	217 / 219
ETH3	117 / 125
	/

Based on samples and information received, this animal qualifies as an offspring of:

Sire: N/A

Dam: N/A

Notes

NO PARENTAGE PERFORMED.

GENOTYPING COMPLETE.

GENOTYPE STORED AT DELTA GENOMICS.

MISSING PARENT GENOTYPES.

MISSING SIRE: LD CAPITALIST 316 REG#: 2025732 TATTOO: IMP 1316A TAG: 316

MISSING DAM: MUSGRAVE LADY BARBARA 545 REG#: US18129640 TATTOO: N/A TAG: N/A

SAMPLE SUBMITTED BY:

Semex Beef
c/o Jeannine Hamilton
5653 Hwy 6 N
Guelph ON N1H 6J2

Date Issued 21/08/2018

Issued By Canadian Angus Association
292140 Wagon Wheel Blvd
Rocky View County AB T4A 0E2

Direct: 403 571 3580
Toll Free: 1 888 571 3580

