



CERTIFICATE OF ANALYSIS

Product: **Biocan R vakcina A.U.V.**Batch No.: **01 56 23 A** 10 doses

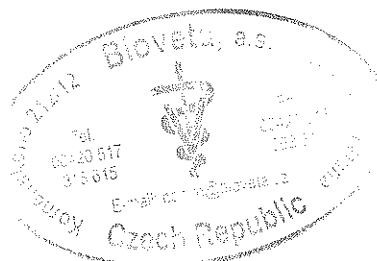
Expiry: 29.06.2018

Date of production: 30.06.2016

Results of analysis:

Tests	Specification	Results
Appearance	Slightly pink solution, which might content fine sediment.	conforms
Content of the original package	min. 1 ml, 5 ml, 10 ml, 20 ml or 100 ml	10.5 ml
Sterility	Vaccine should be sterile.	sterile
Potency	The vaccine must contain min. 2 IU/ml.	6.46 IU/ml
Identity	In the serum of vaccinated animals must be specific antibody levels ≥ 0.5 IU/ml.	1.69 IU/ml
Inactivation	The vaccine must not contain a vivid rabies virus.	conforms
pH	7.2 – 8.2	7.65
Aluminium oxide	0.15 – 0.30 %	0.15995 %
Merthiolate	0.0085 – 0.0115 %	0.0106 %
Air tightness	No colour change.	conforms

I certify that this product has been tested in the laboratories of Bioveta a.s. and has been found to meet specification requirements. Preparation is suitable with control regulations of the valid PN No. 233, spec.03.



Hana Nezvalová
.....30/09/2016
Mgr. Hana Nezvalová
HEAD of QC, QP



CERTIFICATE OF ANALYSIS

Product: **Biocan R vakcina A.U.V.**Batch No.: **01 56 23 B** 10 doses

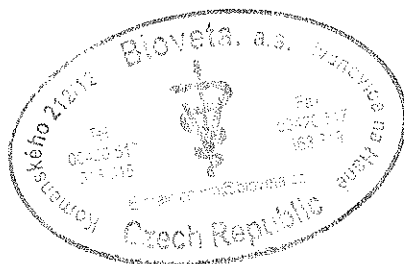
Expiry: 29.06.2018

Date of production: 30.06.2016

Results of analysis:

Tests	Specification	Results
Appearance	Slightly pink solution, which might content fine sediment.	conforms
Content of the original package	min. 1 ml, 5 ml, 10 ml, 20 ml or 100 ml	10.6 ml
Sterility	Vaccine should be sterile.	sterile
Potency	The vaccine must contain min. 2 IU/ml.	6.46 IU/ml
Identity	In the serum of vaccinated animals must be specific antibody levels ≥ 0.5 IU/ml.	1.69 IU/ml
Inactivation	The vaccine must not contain a vivid rabies virus.	conforms
pH	7.2 – 8.2	7.62
Aluminium oxide	0.15 – 0.30 %	0.15995 %
Merthiolate	0.0085 – 0.0115 %	0.0106 %
Air tightness	No colour change.	conforms

I certify that this product has been tested in the laboratories of Bioveta a.s. and has been found to meet specification requirements. Preparation is suitable with control regulations of the valid PN No. 233, spec.03.



Hana Nezvalová
.....29/09/2016
Mgr. Hana Nezvalová
HEAD of QC, QP



ÚSTAV PRO STÁTNÍ KONTROLU VETERINÁRNÍCH BIOPREPAREDŮ A LÉČIV
INSTITUTE FOR STATE CONTROL OF VETERINARY BIOLOGICALS AND MEDICINES

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**EUROPEAN COMMUNITY/EEA OFFICIAL CONTROL AUTHORITY BATCH
RELEASE CERTIFICATE FOR IMMUNOLOGICAL VETERINARY
MEDICINAL PRODUCTS**

Certifikát Evropského společenství /EEA o úředním uvolnění šarže pro imunologické veterinární léčivé přípravky

Institute for State Control of Veterinary Biologicals and Medicines examined the batch of immunological veterinary medicinal product specified below under the Article 82 of Directive 2001/82/EC as amended by Directive 2004/28/EC and in accordance with the current Procedure for Official Control Authority Batch Release of immunological veterinary medicinal products in the European Community:

Ústav pro státní kontrolu veterinárních biopreparátů a léčiv prověřil níže specifikovaný imunologický veterinární léčivý přípravek podle článku 82 Směrnice 2001/82/ES ve znění Směrnice 2004/28/ES a v souladu s aktuálním pokynem Postup pro úřední uvolňování šarží imunologických veterinárních léčivých přípravků kontrolním úřadem v Evropském společenství:

Trade name: Obchodní název:	BIOCAN R injekční suspenze
International non-proprietary Name/Ph.Eur. name/common name: Mezinárodní nechráněný název / název uvedený v Ph. Eur. / běžný název	Vaccina ad usum veterinarium Vaccinum rabiei inactivatum ad usum veterinarium
Name and address of marketing authorisation holder Název a adresa držitele rozhodnutí o registraci	Bioveta a.s. Komenského 212 683 23 Ivanovice na Hané, Czech Republic
Name and address of manufacturer, if different Název a adresa výrobce, pokud jsou odlišné	---
Marketing authorisation number (Member State/EC) issued by Číslo rozhodnutí o registraci (členský stát /ES) vydané	97/086/02-C
Manufacturer's batch number(s) appearing on package and other identification numbers associated with this batch (final bulk lot No., final lot No., packaging lot No.) Číslo výrobní šarže uvedené na obalu a další identifikační čísla vztahující se k této šarži (šarže bulku, finální šarže, šarže balení)	final bulk lot No. 015623 final lot No. 015623A,B packaging lot No. 015623A,B
Batch number of authorised diluent: ¹⁾ Číslo šarže registrovaného zředovače: ¹⁾ (tam, kde je to vhodné)	---
Type of container: Druh obalu:	10 ml glass bottles with rubber stopper
Total number of containers in this batch: ²⁾ Celkový počet obalů v této šarži: ²⁾	18 017 × 10 ml (A) 5 252 × 10 ml (B)
Number of doses/volume per container: Počet dávek/objem obalu:	10 ml/10 dose
Date of start of period of validity: /Datum zahájení doby platnosti: Expiry date/Datum expirace:	30.06.2016 (Blending) 29.06.2018

¹ Provision of different batch numbers of authorised diluent to different Member State should not impair mutual recognition of OCABR for the batch of active component covered by certificate, however if a diluent batch different from that on certificate is provided, protocol documentation on the new diluent batch may be requested in addition to the certificate.
Dodávání různých šarží registrovaného zředovače do různých členských států by nemělo negativně ovlivnit vzájemné uznání OCABR pro šarži účinné složky jistěné certifikátem, nicméně, pokud je šarže zředovače odlišná od šarže uvedené na certifikátu, může být k doplnění certifikátu vyžádána výrobní dokumentace k nové šarži zředovače.

² If different fillings exist, please indicate
uvěde se, pokud jsou plněny rozdílné objemy

Signed/ Podpis:

Date/Datum: 07.09.2016

<p>Bioveta, a.s. Ivanovice na Hané</p>	<p>BIOCAN R, injekční suspenze</p>	<p>Ident. kód: BPR00022 Strana: 1 z 16 Počet příloh: 0 Verze: V001 Výtisk číslo:</p>
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Bioveta a.s.

1. MEMBER STATE SPECIFIC INFORMATION

<p>Identification number for batch to be placed on the market in the Member State (if packaging number different from final number in section 2):</p>	<p>01 56 23 A, B</p>
<p>Marketing authorisation number issued by (Member State/EU)</p>	<p>97/086/02-C</p>
<p>Target species:</p>	<p>Dogs, cats, cattle, pigs, sheep, goat, horses and ferrets</p>
<p>Total number of containers in this batch (pcs):</p>	<p>18 017 pcs (A) 5 252 pcs (B)</p>
<p>Number of containers the release is applied for:</p>	<p>18 017 pcs (A) 5 252 pcs (B)</p>
<p>Number of doses per container:</p>	<p>10 doses</p>
<p>Number of samples for the competent authority:</p>	<p>10 x 10 ml (A) 1 x 10 ml (B)</p>
<p>Date of expiry:</p>	<p>29.06.2018</p>
<p>Name and address of Marketing Authorisation holder (if different from manufacturer in section 2)</p>	<p>/</p>

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022 Strana: 2 z 16 Počet příloh: 0 Verze: V001 Výtisk číslo:
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Bioveta a.s.

2. SUMMARY INFORMATION ON THE FINAL BATCH OF FINISHED PRODUCT

Trade name:	Biocan R suspension for injection
Ph.Eur.	Vaccina ad usum veterinarium
Nature of product:	Vaccine against rabies, inactivated
Batch number(s) of finished product:	01 56 23 A,B
Pharmaceutical form of final product:	Injection
Type of final container:	10 ml glass bottles with rubber stopper
Date of start of period of validity	30.6.2016(Blending)
Shelf life:	24 months
Storage temperature:	Store in a dark and dry place at the temperature between 2 °C and 8 °C. The vaccine shall not be allowed to freeze.
Name and address of manufacturer:	Bioveta, a.s. Komenského 212/12 683 23 Ivanovice na Hané, Czech Republic
Name and address of the batch control site (if different from that of manufacturer)	/

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 3 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3. PRODUCTION INFORMATION

Summary information scheme on batch specific production data including dates of different production stages, production sites and identification numbers.

Product name		Product batch number	
Biocan R suspension for injection		01 56 23 A,B	
Component.	Batch / ID No.	Site(s) of manufacture	Date of manufacture
Inactivated rabies virus, strain Vnukovo-32	63/2016/RVV	Bioveta, a.s.	17.5.2016
Inactivated rabies virus, strain Vnukovo-32	64/2016/RVV	Bioveta, a.s.	17.5.2016
Inactivated rabies virus, strain Vnukovo-32	66 /2016/RVV	Bioveta, a.s.	24.5.2016
Inactivated rabies virus, strain Vnukovo-32	67/2016/RVV	Bioveta, a.s.	24.5.2016
aluminium hydroxide gel	5227	Brenntag biosector	-
Thiomersal	000 667	Gihon	-

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód:	BPR00022
		Strana:	4 z 16
		Počet příloh:	0
		Verze:	V001
		Výtisk číslo:	

Bioveta a.s.

3.1 STARTING MATERIALS

3.1.1 Virus seed lots

Master seed material	Batch number
MSV Bio – 16: Sad Vnukovo – 32	109 th passage, 29.11.1992
	Date of last testing
	8.7.2010

Working seed material	Batch number
WSV Bio – 16: Sad Vnukovo – 32	110 th passage, 26.2.2013
	Date of last testing
	30.10.2013

3.1.2 Cell seed lots

Master seed material	Batch number
MCS Bio – 101: BHK-21 C13,	139 th passage, 27.2.1991
	Date of last testing
	14.5.2010

Working seed material	Batch number
WCS Bio – 101: BHK-21 C13,	142 nd passage, 27.6.2012
	Date of last testing
	17.6.2013

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022 Strana: 5 z 16 Počet příloh: 0 Verze: V001 Výtisk číslo:
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Bioveta a.s.

3.1.3 Other materials of animal origin

Material	Batch number
Foetal bovine serum	63/2016/RVV: A10312 – 2859 64/2016/RVV: A10312 – 2859 66/2016/RVV: A10312 – 2859 67/2016/RVV: A10312 – 2859
Calf serum	63/2016/RVV: B30713 – 1840 64/2016/RVV: B30713 – 1840 66/2016/RVV: B30713 – 1840 67/2016/RVV: B30713 – 1840
Trypsin	63/2016/RVV: 555223 64/2016/RVV: 555223 66/2016/RVV: 545223 67/2016/RVV: 555223

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 6 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3.2 INTERMEDIATE STAGES OF PRODUCTION

3.2.1 Rabies virus, strain Vnukovo-32, batch – 63/2016/RVV

Production step	Start	End	Material	Volume	Other relevant data
Cell passaging	29.4.2015	9.5.2016	trypsin solution culture medium	8.9 l 47.7 l	-
Infection	9.5.2016	9.5.2016	WSV Bio – 16: Sad Vnukovo – 32, 110 th passage of 26.2.2013 trypsin solution culture medium	0.08 ml 15 l 75 l	-
Passaging of infected cells	11.5.2016	11.5.2016	trypsin solution culture medium	38 l 193 l	-
Exchange of the cultivation medium	13.5.2016	13.5.2016	maintaining medium	180 l	-
Harvest	17.5.2016	17.5.2016	-	180 l	-
Inactivation	17.5.2016	18.5.2016	Betapropiolactone	90 ml	-
Storage(<-25°C)	18.5.2016	24.6.2016	-	180 l	at temperature at ≤-20°C (max. 6 months)
Storage (2-8°C)	24.6.2016	28.6.2016	-	180 l	at temperature 2-8 °C (max. 1 month)
Concentration (ultrafiltration)	28.6.2016	28.6.2016	-	180 l ----> 57 l	-
Storage (2-8°C)	28.6.2016	30.6.2016	-	-	at temperature 2-8 °C (max. 5 months) or at ≤ -20°C (max. 5 months)

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 7 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3.2.2. Rabies virus, strain Vnukovo-32, batch 64/2016/RVV

Production step	Start	End	Material	Volume	Other relevant data
Cell passaging	29.4.2016	9.5.2016	trypsin solution culture medium	8.8 l 47.7 l	-
Infection	9.5.2016	9.5.2016	WSV Bio – 16: Sad Vnukovo – 32, 110 th passage of 26.2.2013 trypsin solution culture medium	0.08 ml 15 l 75 l	-
Passaging of infected cells	11.5.2016	11.5.2016	trypsin solution culture medium	38 l 193 l	-
Exchange of the cultivation medium	13.5.2016	13.5.2016	maintaining medium	180 l	-
Harvest	17.5.2016	17.5.2016	-	180 l	-
Inactivation	17.5.2016	18.5.2016	Betapropiolactone	90 ml	-
Storage(<-25°C)	18.5.2016	24.6.2016	-	180 l	at temperature at ≤-20°C (max. 6 months)
Storage (2-8°C)	24.6.2016	28.6.2016	-	180 l	at temperature 2-8 °C (max. 1 month)
Concentration (ultrafiltration)	28.6.2016	28.6.2016	-	180 l ----> 56 l	-
Storage (2-8°C)	28.6.2016	30.6.2016	-	-	at temperature 2-8 °C (max. 5 months) or at ≤ -20°C (max. 5 months)

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 8 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3.2.3. Rabies virus, strain Vnukovo-32, batch 66/2016/RVV

Production step	Start	End	Material	Volume	Other relevant data
Cell passaging	6.5.2016	16.5.2016	trypsin solution culture medium	8.8 l 47.7 l	-
Infection	16.5.2016	16.5.2016	WSV Bio – 16: Sad Vnukovo – 32, 110 th passage of 26.2.2013 trypsin solution culture medium	0.08 ml 15 l 75 l	-
Passaging of infected cells	18.5.2016	18.5.2016	trypsin solution culture medium	38 l 193 l	-
Exchange of the cultivation medium	20.5.2016	20.5.2016	maintaining medium	180 l	-
Harvest	24.5.2016	24.5.2016	-	180 l	-
Inactivation	24.5.2016	25.5.2016	Betapropiolactone	90 ml	-
Storage (<-25°C)	25.5.2016	24.6.2016	-	180 l	at temperature at ≤-20°C (max. 6 months)
Storage (2-8°C)	24.6.2016	28.6.2016	-	180 l	at temperature 2-8 °C (max. 1 month)
Concentration (ultrafiltration)	28.6.2016	28.6.2016	-	180 l ----> 56 l	-
Storage (2-8°C)	28.6.2016	30.6.2016	-	-	at temperature 2-8 °C (max. 5 months) or at ≤ -20°C (max. 5 months)

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 9 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3.2.4. Rabies virus, strain Vnukovo-32, batch 67/2016/RVV

Production step	Start	End	Material	Volume	Other relevant data
Cell passaging	6.5.2016	16.5.2016	trypsin solution culture medium	8.8 l 47.7 l	-
Infection	16.5.2016	16.5.2016	WSV Bio – 16: Sad Vnukovo – 32, 110 th passage of 26.2.2013 trypsin solution culture medium	0.08 ml 15 l 75 l	-
Passaging of infected cells	18.5.2016	18.5.2016	trypsin solution culture medium	38 l 193 l	-
Exchange of the cultivation medium	20.5.2016	20.5.2016	maintaining medium	180 l	-
Harvest	24.5.2016	24.5.2016	-	180 l	-
Inactivation	24.5.2016	25.5.2016	Betapropiolactone	90 ml	-
Storage(<-25°C)	25.5.2016	24.6.2016	-	180 l	at temperature at ≤-20°C (max. 6 months)
Storage (2-8°C)	24.6.2016	29.6.2016	-	180 l	at temperature 2-8 °C (max. 1 month)
Concentration (ultrafiltration)	29.6.2016	29.6.2016	-	180 l ----> 55.75 l	-
Storage (2-8°C)	29.6.2016	30.6.2016	-	-	at temperature 2-8 °C (max. 5 months) or at ≤ -20°C (max. 5 months)

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022 Strana: 10 z 16 Počet příloh: 0 Verze: V001 Výtisk číslo:
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Bioveta a.s.

3.3. CREATION OF THE FINAL PRODUCT

3.3.1 Blending (batch no. 01 56 23)

Components	Start date	End date	Bulk/batch number	Total volume
Inactivated rabies virus, strain Vnukovo-32	30.6.2016	30.6.2016	63/2016/RVV	57 l
			64/2016/RVV	56 l
			66/2016/RVV	56 l
			67/2016/RVV	55.75 l
			-	-
			-	-
Aluminium hydroxide gel			5227	25 l
Thiomersal			000 667	0.25 l
Water for injection			-	-
Final bulk volume (min. 70 l – max. 1000 l)				
Storage (2-8°C)	30.6.2016	30.6.2016	01 56 23	190 l
Storage (2-8°C)	30.6.2016	22.7.2016	01 56 23	60 l

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022
		Strana: 11 z 16
		Počet příloh: 0
		Verze: V001
		Výtisk číslo:

Bioveta a.s.

3.3.1.1 Vaccine composition (batch no. 01 56 23)

Component	Batch no.	Target concentration	Final concentration
Rabies virus, strain Vnukovo-32	63/2016/RVV	Glycoprotein content min. 8 IU/ml (final vaccine bulk)	18.13 IU/ml
	64/2016/RVV		
	66/2016/RVV		
	67/2016/RVV		
	-		
	-		
Aluminium hydroxide gel	5227	0.15 – 0.30 %	0.1724%
Thiomersal	000 667	0.0085 – 0.0115 %	0.0115 %

3.3.2 Filling (batch no. 01 56 23 A,B)

Final batch number	Filling date		Number or filled container	Volume filled
	start	end		
01 56 23 A	30.6.2016	1.7.2016	18 017 pcs	10.3 ml
01 56 23 B	22.7.2016	22.7.2016	5 252 pcs	10.3 ml

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód:	BPR00022
		Strana:	12 z 16
		Počet příloh:	0
		Verze:	V001
		Výtisk číslo:	

Bioveta a.s.

3.4. IN PROCESS CONTROLS

3.4.2. In process controls on live viral suspension

3.4.2.1. Rabies virus, strain Vnukovo-32, 63/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Titre	17.5.2016	19.5.2016	10 ^{8.1} TCID ₅₀ /ml	min. 10 ^{7.0} TCID ₅₀ /ml	Satisfy
Sterility test	17.5.2016	31.5.2016	Sterile	Must be sterile	Satisfy

3.4.2.2. Rabies virus, strain Vnukovo-32, 64/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Titre	17.5.2016	19.5.2016	10 ^{8.1} TCID ₅₀ /ml	min. 10 ^{7.0} TCID ₅₀ /ml	Satisfy
Sterility test	17.5.2016	31.5.2016	Sterile	Must be sterile	Satisfy

3.4.2.3. Rabies virus, strain Vnukovo-32, 66/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Titre	24.5.2016	26.5.2016	10 ^{8.1} TCID ₅₀ /ml	min. 10 ^{7.0} TCID ₅₀ /ml	Satisfy
Sterility test	24.5.2016	7.6.2016	Sterile	Must be sterile	Satisfy

3.4.2.4. Rabies virus, strain Vnukovo-32, 67/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Titre	24.5.2016	26.5.2016	10 ^{8.1} TCID ₅₀ /ml	min. 10 ^{7.0} TCID ₅₀ /ml	Satisfy
Sterility test	24.5.2016	7.6.2016	Sterile	Must be sterile	Satisfy

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód:	BPR00022
		Strana:	13 z 16
		Počet příloh:	0
		Verze:	V001
		Výtisk číslo:	

Bioveta a.s.

3.4.3. In process controls post – inactivation

3.4.3.1. Rabies virus, strain Vnukovo-32, 63/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Inactivation	18.5.2016	31.5.2016	Inactivated	No live virus must be detected	Satisfy
pH	18.5.2016	18.5.2016	7.62	7.2 – 7.8	Satisfy
Glycoprotein content	20.5.2016	20.5.2016	6.64 IU/ml	Min. 3.5 IU/ml	Satisfy
Glycoprotein content (after concentration)	29.6.2016	29.6.2016	19.06 IU/ml	Min. 10 IU/ml	Satisfy

3.4.3.2. Rabies virus, strain Vnukovo-32, 64/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Inactivation	18.5.2016	31.5.2016	inactivated	No live virus must be detected	Satisfy
pH	18.5.2016	18.5.2016	7.5	7.2 – 7.8	Satisfy
Glycoprotein content	20.5.2016	20.5.2016	6.44 IU/ml	Min. 3.5 IU/ml	Satisfy
Glycoprotein content (after concentration)	29.6.2016	29.6.2016	18.67 IU/ml	Min. 10 IU/ml	Satisfy

3.4.3.3. Rabies virus, strain Vnukovo-32, 66/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Inactivation	25.5.2016	7.6.2016	inactivated	No live virus must be detected	Satisfy
pH	25.5.2016	25.5.2016	7.47	7.2 – 7.8	Satisfy
Glycoprotein content	26.5.2016	26.5.2016	6.93 IU/ml	Min. 3.5 IU/ml	Satisfy
Glycoprotein content (after concentration)	29.6.2016	29.6.2016	19.47 IU/ml	Min. 10 IU/ml	Satisfy

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód:	BPR00022
		Strana:	14 z 16
		Počet příloh:	0
		Verze:	V001
		Výtisk číslo:	

Bioveta a.s.

3.4.3.4. Rabies virus, strain Vnukovo-32, 67/2016/RVV

Test	Start	End	Result	Thresholds	Conclusion
Inactivation	25.5.2016	7.6.2016	inactivated	No live virus must be detected	Satisfy
pH	25.5.2016	25.5.2016	7.45	7.2 – 7.8	Satisfy
Glycoprotein content	26.5.2016	26.5.2016	7.41 IU/ml	Min. 3.5 IU/ml	Satisfy
Glycoprotein content (after concentration)	29.6.2016	29.6.2016	23.49 IU/ml	Min. 10 IU/ml	Satisfy

3.4.4. In-process control on bulk vaccine after blending (batch no. 01 56 23)

Test	Start	End	Result	Thresholds	Conclusion
pH	30.6.2016	30.6.2016	7.52	6.5 – 8.5	Satisfy
Sterility test	30.6.2016	21.7.2016	complies	Must be sterile	Satisfy
Glycoprotein content (calculation in final vaccine bulk)	See 3.3.1.1 Vaccine composition				

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód:	BPR00022
		Strana:	15 z 16
		Počet příloh:	0
		Verze:	V001
		Výtisk číslo:	

Bioveta a.s.

4. FINAL PRODUCT TESTING - Biocan R suspension for injection (batch no.01 56 23A,B)

Test	Start	End	Result	Thresholds	Conclusion
Appearance	13.7.2016 29.7.2016	13.7.2016 (A) 29.7.2016 (B)	complies	Slight pink solution with fine sediment.	Satisfy
Extractable volume	13.7.2016 29.7.2016	13.7.2016 (A) 29.7.2016 (B)	10.5 ml 10.6 ml	min. 10 ml	Satisfy
Sterility test	4.7.2016 26.7.2016	25.7.2016 (A) 16.8.2016 (B)	Sterile	The vaccine must be sterile.	Satisfy
Potency test	1.7.2016	29.7.2016	6.46 IU/ml	Min. 2.0 IU/ml	Satisfy
Potency test	1.7.2016	20.7.2016	>2 IU (p=0.000)	Antibody titers in mice after vaccination with the product batches are significantly higher than the titers obtained by standard vaccine 2 IU (p≤0.05)	Satisfy
Inactivation test	1.7.2016	22.7.2016	complies	The vaccine must be free from live rabies virus.	Satisfy
Aluminium hydroxide content	13.7.2016	13.7.2016	1.5995 mg/ml	2.0 mg/ml (1.5 – 3.0)	Satisfy
Thiomersal content	13.7.2016	13.7.2016	0.106 mg/ml	0.1 mg/ml (0.085 – 0.115)	Satisfy
pH	13.7.2016 29.7.2016	13.7.2016 (A) 29.7.2016 (B)	7.65 7.62	Between 6.5 and 8.5	Satisfy
Air tightness	13.7.2016 29.7.2016	13.7.2016 (A) 29.7.2016 (B)	complies	The vials must be hermetically sealed.	Satisfy

Bioveta, a.s. Ivanovice na Hané	BIOCAN R, injekční suspenze	Ident. kód: BPR00022 Strana: 16 z 16 Počet příloh: 0 Verze: V001 Výtisk číslo:
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Bioveta a.s.

5. CERTIFICATION BY THE MANUFACTURER

Certification by qualified person taking the overall responsibility for production and control of the product: **Biocan R** batch N° **01 56 23 A,B**

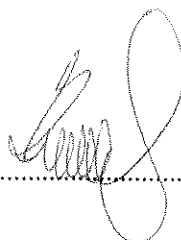
I hereby certify that the above information is authentic and accurate. This batch of product has been manufactured, including packaging and quality control in full compliance with the GMP requirements of the local regulatory Authority and with the specifications on the Marketing Authorization of the importing country. The batch processing, packing and analysis records were reviewed and found to be in compliance with GMP.

NAME: Nezvalová Hana, Mgr.

FUNCTION: Head of QC, QP

DATE: 17.8.2016

SIGNATURE:



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