|  |  |  |  |
| --- | --- | --- | --- |
|  | **Service public de Wallonie** (SPW) | Public service of Wallonia  **Direction de la Qualité et du Bien-être Animal** (DQBEA) | Direction of Quality and Animal Welfare | **QT\_FormB RW\_BEAVA** CPVO/TQ-Sugarbeet/1 - 15/11/2001 | |
| **Id Dossier** |  |
| Chaussée de Louvain 14 - B-5000 Namur BELGIUM  **P**hone +32 81 64 95 97 | [catalogue.varietes@spw.wallonie.be](mailto:catalogue.varietes@spw.wallonie.be) | | **Official Date of application request** |  |
| <https://agriculture.wallonie.be/productions-vegetales> | |  |  |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Technical Questionnaire : Betterave sucriere / sugar beet** | | | | | | | | | | | | | | | | | | | |
| **1. Taxon botanique** / Botanical taxon : **Espèce** /Species | | | | | | | | | | | | | | | | | | | |
| *Beta vulgaris L. ssp. vulgaris var. saccharifera Alef. (*syn. *Beta vulgaris L. ssp. vulgaris var. altissima Döll)* | | | | | | | | | | | | | | | | | | | |
| Autre / Other (please specify) : | | | | | | | | | | | | | | | | | | | |
| **2. Demandeur(s)** / Applicant(s) | | | | | | | | | | | | | | | | | | | |
| Nom / Name | | | | | | | | |  | | | | | | | | | | |
| Adresse | | | | | | | | |  | | | | | | | | | | |
| E-mail: | | | | | | | | |  | | | | | | | | | | |
| **3. Référence de l'obtenteur** / Breeder’s reference | | | | | | | | |  | | | | | | | | | | |
| **4. Informations sur l'origine, le maintien et la reproduction ou la multiplication de la variété** / Information on origin, maintenance and reproduction of the variety (Cette question restera confidentielle / this question could be confidential) | | | | | | | | | | | | | | | | | | | |
| **4.1** **Type de matériel** / type of material | | | | | | | | | | | | | | | | | | | |
| **Souche pure** / Inbred line | | | | | | | | | |  | | | | | | | | | |
| **Hybride croisement simple** / Single cross hybrid | | | | | | | | | |  | | | | | | | | | |
| **Variété synthétique** / Synthetic | | | | | | | | | |  | | | | | | | | | |
| **autre (veuillez spécifier)** / other (please specify) | | | | | | | | | |  | | | | | | | | | |
| **4.2** **Schéma de sélection** / breeding sheme | | | | | | | | | | | | | | | | | | | |
| **semis (indiquer les variétés parentales)** / seedling (indicate parents varieties) | | | | | | | | | |  | | | | | | | | | |
| **mutation (indiquer les variétés parentales)** / mutation (indicate parents varieties) | | | | | | | | | |  | | | | | | | | | |
| **découverte (indiquer où, quand et comment la variété a été développée)** / Discovery (indicate where, when and how the variety has been developed) | | | | | | | | | |  | | | | | | | | | |
| **autre (veuillez spécifier)** / other (please specify) | | | | | | | | | |  | | | | | | | | | |
| **4.3 Méthode de propagation de la variété** / Method of propagation of the variety | | | | | | | | | | | | | | | | | | | |
| **boutures**/ cuttings | | | | | | | | | | | | | | | | | | | |
| **propagation *in vitro*** / *in vitro* propagation | | | | | | | | | | | | | | | | | | | |
| **semence** / seed | | | | | | | | | | | | | | | | | | | |
| **autre (spécifier la méthode)** / other (specify method ) | | | | | | | | | |  | | | | | | | | | |
| **4.4 Dans le cas des variétés multipliées par graines, méthode de production** / In the case of seed propagated varieties, method of production | | | | | | | | | | | | | | | | | | | |
| **autopollinisation** / self-pollination | | | | | | | | | | | | | | | | | | | |
| **pollinisation croisée (spécifier la méthode)** / cross pollination (specify the method ) | | | | | | | | | |  | | | | | | | | | |
| **hybride (spécifier la méthode)** / hybrid (specify the method ) | | | | | | | | | |  | | | | | | | | | |
| **5. Caractères de la variété à indiquer** / Characteristics of the variety to be given | | | | | | | | | | | | | | | | | | | |
| **05.01.** **Germie : pourcentage de semences monogerme** / germity : percentage of monogerm seeds *(1)* | | | | | | | | | | | | | | | | | | | |
| **monogerme** / monogerm (>95%) | | | | | | | | | MS147 | | | | | | | | | | 1 |
| **partiellement monogerme/ partiellement multigerme (< 95 % et > 15 %)** / partly monogerm/ partly multigerm (< 95 % and > 15 %) | | | | | | | | |  | | | | | | | | | | 2 |
| **multigerme** / multigerm (< 15%) | | | | | | | | | KW919 | | | | | | | | | | 3 |
| **(05.02.)** **Plante : ploidie** / plant : ploidy (*SPW/TQ Sugarbeet/6.2.p 2 -11/04/2013 and pt 07.04.01 CPVO/TQ-Sugarbeet/1 -15/11/2001*) | | | | | | | | | | | | | | | | | | | |
| **Diploïde** / diploid | | | | | | | | | % | | | | | | | | | | 1 |
| **Triploïde** / triploïd | | | | | | | | | % | | | | | | | | | | 2 |
| **Tétraploide** / tetraploid | | | | | | | | | % | | | | | | | | | | 3 |
| **Polyploïde** / polyploïd | | | | | | | | | % | | | | | | | | | | 4 |
| **(05.03.)** **Ploidie des parents** / parental ploidy (*SPW/TQ Sugarbeet/6.3.p 2 -11/04/2013*) | | | | | | | | | | | | | | | | | | | |
| **Diploïde sans stérilité mâle** / diploid without male sterility | | | | | | | | | 2n | | | | | | | | | | 1 |
| **Diploïde mâle stérile avec un pollinisateur diploïde**  / sterile male diploid with a diploid pollinator | | | | | | | | | 2n X 2n | | | | | | | | | | 2 |
| **Tétraploide mâle stérile avec un pollinisateur diploïde** / sterile male tetraploid with a diploid pollinator | | | | | | | | | 4n X 2n | | | | | | | | | | 3 |
| **Diploïde mâle stérile avec un pollinisateur tétraploïde** / sterile male diploid with a tetraploid pollinator | | | | | | | | | 2n X 4n | | | | | | | | | | 4 |
| **Diploïde mâle stérile avec un pollinisateur tetraploïde fertile** / sterile male diploid with a fertile tetraploid pollinator | | | | | | | | | 2n X (2n + 4n) | | | | | | | | | | 5 |
| **Tétraploïde sans stérilité mâle**  / tetraploid without male sterility | | | | | | | | | 4n | | | | | | | | | | 6 |
| **Diploïde mâle fertile plus un pollinisateur tétraploïde fertile** / fertile male diploid plus a fertile tetraploid pollinator | | | | | | | | | 2n + 4n | | | | | | | | | | 7 |
| **05.04.** **Coloration de l'hypocotyle : pourcentage avec hypocotyle coloré (anthocyanes)** / hypocotyl staining : percentage with colored hypocotyl (anthocyanin) *(3)* | | | | | | | | | | | | | | | | | | | |
| 0-19 % | | | | | | | | | MS147 | | | | | | | | | | 1 |
| 20-39 % | | | | | | | | |  | | | | | | | | | | 2 |
| 40-59 % | | | | | | | | | MS146 | | | | | | | | | | 3 |
| 60-79 % | | | | | | | | |  | | | | | | | | | | 4 |
| 80-100 % | | | | | | | | | MS99202 | | | | | | | | | | 5 |
| **05.05.** **Hauteur de la plante /** plant height *(9)* | | | | | | | | | | | | | | | | | | | |
| **Très courte** / very short | | | | | | | | |  | | | | | | | | | | 1 |
| **Très courte à courte** / very short to short | | | | | | | | |  | | | | | | | | | | 2 |
| **Courte** / short | | | | | | | | | MS152, MS143 | | | | | | | | | | 3 |
| **Courte à moyenne** / short to medium | | | | | | | | |  | | | | | | | | | | 4 |
| **Moyenne** / medium | | | | | | | | |  | | | | | | | | | | 5 |
| **Moyenne à grand** / medium to tall | | | | | | | | |  | | | | | | | | | | 6 |
| **Grand** / tall | | | | | | | | | POLL132 | | | | | | | | | | 7 |
| **Grande à très grande** / tall to very tall | | | | | | | | |  | | | | | | | | | | 8 |
| **Très grande** / very tall | | | | | | | | |  | | | | | | | | | | 9 |
| **(05.06.)** **Coloration du limbe de la feuille** / leaf blade coloring *(SPW/TQ Sugarbeet/7.2.p 2 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Vert clair** / light green | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Vert foncé** / dark green | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.07.)** **Longueur totale du pétiole et du limbe** / total length of the petiole and leaf blade *(SPW/TQ Sugarbeet/7.3.p 2 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / small | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Long** / large | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.08.**) **Largeur du pétiole** / width of the petiole *(SPW/TQ Sugarbeet/7.4.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / small | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Long** / large | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.09.**) **Bouquet foliaire** / leaf frame *(SPW/TQ Sugarbeet/7.5.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Petit** / small | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Abondant** / abundant | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.10.**) **Port du bouquet foliaire** / attitude of the leaf frame *(SPW/TQ Sugarbeet/7.6.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Etalé** / prostratel | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Dressé** / erect | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.11.**) **Ondulation du bord de feuille** / undulation of leaf blade margin *(SPW/TQ Sugarbeet/7.7.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.12.**) **Gaufrure du limbe** / glossiness of leaf blade *(SPW/TQ Sugarbeet/7.8.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.13.**) **Racine : Régularité de la partie hors terre** / root : regularity of the parts above soil *(SPW/TQ Sugarbeet/7.9.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.14.**) **Racine : Ramification (% des racines à ramifications ayant un diamètre supérieur à 5 mm)** / root : ramification (% of branched roots with a diameter greater than 5 mm) *(SPW/TQ Sugarbeet/7.10.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.15.**) **Racine : Terre adhérant aux racines (tare)** / root : earth adhering to the roots (tare) *(SPW/TQ Sugarbeet/7.11.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **(05.16.**) **Fibrosité** / fibrosity *(SPW/TQ Sugarbeet/7.12.p 3 -11/04/2013)* | | | | | | | | | | | | | | | | | | | |
| **Faible** / light | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Forte** / high | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **6. Variétés voisines et différences par rapport à ces variétés** / Similar varieties and differences from these varieties | | | | | | | | | | | | | | | | | | | |
| Veuillez noter que des informations sur des variétés similaires peuvent aider à identifier des variétés comparables et peuvent éviter une période d'essai supplémentaire / Please note that information on similar varieties may help to identify comparable varieties and can avoid an additional period of testing | | | | | | | | | | | | | | | | | | | |
| **6.1 Y a-t-il des variétés similaires connues ?** / Are there any similar variety(ies) known? | | | | | | | | | | | | | | | | | | | |
| **Oui /** Yes | | | **Non** / No | | | | | | | | | | | | | | | | |
| **6.2 Variétés similaires et différences avec ces variétés** / Similar varieties and differences from these varieties | | | | | | | | | | | | | | | | | | | |
| **Dénomination de la variété voisine /** Denomination of similar variety | **Caractère par lequel la variété voisine diffère** / Characteristic in which the similar variety is different | | | | | | | | **Niveau d'expression pour la variété voisine /** State of expression of similar variety | | | | | | | **Niveau d'expression pour la variété candidate /** State of expression of candidate variety | | | |
|  |  | | | | | | | |  | | | | | | |  | | | |
|  |  | | | | | | | |  | | | | | | |  | | | |
|  |  | | | | | | | |  | | | | | | |  | | | |
| **7. Renseignements complémentaires pouvant faciliter la détermination des caractères distinctifs de la variété** / Additional information which may help to distinguish the variety | | | | | | | | | | | | | | | | | | | |
| **7.1 Résistances aux parasites et aux maladies** / Resistance to pests and diseases | | | | | | | | | | | | | | | | | | | |
| **(07.01.01.) Essai VCU de base /** basic VCU testing :  **RT** (Rhm) : **Rhizomanie résistant**  / Resistance to Rhizomania | | | | | | | | | | | | | | | | | | | |
| **(07.01.02.) En plus de l’essai VCU Rhizomanie résistant (RT), la variété participera aux essais VCU complémentaires suivants** / In addition to VCU Rhizomania Resistant (RT) testing, the variety will participate in the following complementary VCU testing : | | | | | | | | | | | | | | | | | | | |
| **RR** (Rhc) : **Rhizoctonia résistant** / Resistance to Rhizoctonia *(Rhizoctonia solani)*  **NT** (Ném) : **Nématode tolérant** / Tolerant to nematodes *(Heterodera schachtii)*  **NR** (Ném) : **Nématode résistant** / Resistance to nematodes *(Heterodera schachtii)* | | | | | | | | | | | | | | | | | | | |
| **07.01.03. Autres résisitances** / other resistance : | | | | | | | | | |  | | | | | | | | | |
| **07.01.04. Tolérance aux maladies foliaires** / tolerance of leaf diseases (*SPW/TQ Sugarbeet/8.3.p 3 -11/04/2013*) | | | | | | | | | | | | | | | | | | | |
| **Tolérance à** / tolerance of *Erysiphe betae (***Oïdium**) | | | | | | | | | | | | | | | | | | | |
| **Sensible** / sensitive | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Tolérant** / tolerant | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **Tolérance à** / tolerance of C*ercospora beticola (***Cercosporiose**) | | | | | | | | | | | | | | | | | | | |
| **Sensible** / sensitive | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Tolérant** / tolerant | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **Tolérance à /** tolerance of *Ramularia betae (***Ramulariose**) | | | | | | | | | | | | | | | | | | | |
| **Sensible** / sensitive | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Tolérant** / tolerant | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| Tolérance à / tolerance of *Uromyces betae (***Rouille**) | | | | | | | | | | | | | | | | | | | |
| **Sensible** / sensitive | | 1 | | 2 | 3 | 4 | 5 | | | | 6 | 7 | | 8 | 9 | | **Tolérant** / tolerant | | |
|  | |  | |  |  |  |  | | | |  |  | |  |  | |  | | |
| **7.2 En plus des informations fournies dans les sections 5 et 6, y a-t-il des caractéristiques supplémentaires qui peuvent aider à distinguer la variété?** / In addition to the information provided in sections 5 and 6, are there any additional characteristics which may help to distinguish the variety? | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | |  | | | | | | | | | | |
| **(07.02.01.) Pourcentage de betteraves montées /** percentage of plant mounted (*SPW/TQ Sugarbeet/8.1.p 3 -11/04/2013*) | | | | | | | | | | | | | | | | | | | |
| % | | | | | | | | | **Date de semis** / seeding date : | | | | | | | | | | |
| **(07.02.02.) Faculté de conservation** / faculty of conservation (*SPW/TQ Sugarbeet/8.4.p 3 -11/04/2013*) | | | | | | | | | | | | | | | | | | | |
| **Faible** / slight | | | | | | | | |  | | | | | | | | | 3 | |
| **Moyenne** / medium | | | | | | | | |  | | | | | | | | | 5 | |
| **Elévée** / strong | | | | | | | | |  | | | | | | | | | 7 | |
| **(07.02.03.) Teneur en sucre des racines** / sugar content of the roots (*SPW/TQ Sugarbeet/8.5.p 3 -11/04/2013*) | | | | | | | | | | | | | % | | | | | | |
| **(07.02.04.) Rendement en racines fraîches par hectare** / harvest of fresh root per hectare (*SPW/TQ Sugarbeet/8.6.p 3 -11/04/2013*) | | | | | | | | | | | | | **%** | | | | | | |
| **(07.02.05.) Terre exportée par hectare** / exported soil per hectare (*IRBAB/Variety Description Sugarbeet/17.p 2*) | | | | | | | | | | | | | **%** | | | | | | |
| **7.3 Existe-t-il des conditions spéciales pour cultiver la variété ou effectuer l'examen?** / Are there any special conditions for growing the variety or conducting the examination? | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **7.4 Renseignements complémentaires /** Additional information | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **8 08.01. Information exigée concernant les OGM /** GMO information required | | | | | | | | | | | | | | | | | | | |
| **La variété est-elle un Organisme Génétiquement Modifié au sens de la législation de l’Article 2(2) de la Directive du Conseil EC/2001/18 du 12/03/2001 et de l’Arrêté royal du 21.02.2005 réglementant la dissémination volontaire dans l'environnement ainsi que la mise sur le marché d'organismes génétiquement modifiés ou de produits en contenant?** Is the variety a Genetically Modified Organism within the meaning of Article 2(2) of Council Directive EC/2001/18 of 12.03.2001 and the Koninklijk Besluit of 21.02.2005 To regulations of the deliberate release into the environment as well as the marketing of genetically modified organisms or products which contain them. | | | | | | | | | | | | | | | | | | | |
| **Oui** / yes | **08.02. Si oui, veuillez joindre une copie de l'autorisation pour la dissémination volontaire dans l'environnement ainsi que la mise sur le marché d'organismes génétiquement modifiés ou de produits en contenant**  /If yes, please attach a copy oft he written attestation oft he responsible authoritis stating that a technical examination oft he variety under Article 55 and 56 of the Basic Regulation does not pose risks tot the environment according tot he norms oft he above-mentioned Directive | | | | | | | | | | | | | | | | | | |
| **Non** / no | | | | | | | | | | | | | | | | | | | |
| **9. Information sur le matériel végétal à examiner** / Information on plant material to be examined  **L'expression d'une caractéristique ou de plusieurs caractéristiques d'une variété peut être affectée par des facteurs tels que des ravageurs et les maladies, un traitement chimique (régulateurs de croissance ou pesticides), les effets d'une culture de tissu, des rhizomes différents ou des greffons provenant de différentes périodes de croissance, etc**. / The expression of a characteristic or several characteristics of a variety may be affected by factors, such as pests and disease, chemical treatment (e.g. growth retardants or pesticides), effects of tissue culture, different rootstocks, scions taken from different growth phases of a tree, etc. | | | | | | | | | | | | | | | | | | | | |
| **9.1 Microorganismes (entre autres : virus, bactéries, phytoplasmes)** / Micro-organisms (e.g. virus, bacteria, phytoplasma) | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **9.2 Traitement chimique (entre autres, régulateur de croissance ou pesticide) /** Chemical treatment (e.g. growth retardant or pesticide) | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **9.3 Culture de tissus** / Tissue culture | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **9.4 Autres facteurs** / Other factors | | | | | | | | | | | | | | | | | | | |
| **Oui, précisez** / Yes, specify  **Non** / No | | | | | | | | | |  | | | | | | | | | |
| **10 Place possible de l'examen technique** / Possible place of the technical examination  In case the CPVO needs to arrange a technical examination for this candidate variety, there might be more than one examination office entrusted by the CPVO suitable to grow your variety. In this case, the Office will decide on the place of the technical examination but you might iwsh to express here a preference in respect of an examination office. | | | | | | | | | | | | | | | | | | | | |
| **10.1 Pays où l'examen DHS pourrait avoir lieu** / Country where the DUS examination could take place: | | | | | | | | BELGIUM (BE\_IRBAB) | | | | | | | | | | | | |
| **Je / nous déclarons par la présente qu'à ma / notre connaissance, les informations données dans ce formulaire sont complètes et correctes /** I/we hereby declare that to the best of my/our knowledge the information given in this form is complete and correct. | | | | | | | | | | | | | | | | | | | | |
| Date | | | | | | | | |  | | | | | | | | | | | |
| Nom et signature du Responsable officiel / Name and signature of official responsible | | | | | | | | |  | | | | | | | | | | | |