# II.8.3 Anti-bribery/anti-corruption

The parties represent and warrant that, beyond the mutual consideration set forth in this APA, neither they nor their agents have provided or requested, or will provide or request, any additional incentive or benefit to or from the other party or its agents to induce either party to enter into this APA or perform any part of this APA.

The Contractor has not made, and will not make, in the performance of this APA directly or indirectly any payment, offer, promise, or authorisation of payment of money or anything of value to a government official, political party, candidate for political office, or any other person, and has not sought and will not seek improperly or corruptly to influence any government official, political party, candidate for political office, or any other person, in order to gain an improper business advantage.

# II.8.4 No other warranty

Except to the extent set out expressly in this APA, all conditions, warranties or other terms which might have effect between the parties or be implied or incorporated into this APA (whether by statute, common law or otherwise) are hereby excluded to the fullest extent permitted by applicable Law. Without prejudice to the general nature of the previous sentence, unless this APA specifically states otherwise and to the maximum extent permitted by applicable Law, the Contractor expressly disclaims any representations or warranties with respect to the Vaccine, including, but not limited to, any warranties or undertaking as to non-infringement of intellectual property rights of a third party.

# **II.9** CONFIDENTIALITY

- II.9.1 Neither the Commission, a Participating Member State nor the Contractor shall, at any time, without the disclosing party's prior written consent, disclose to any third party any of the other party's Confidential Information.
- II.9.2 The Commission, the Participating Member State and the Contractor shall:
  - (a) use such Confidential Information solely for the purposes for which it was provided;
  - (b) take all reasonable precautions to prevent any unauthorised use or disclosure;
  - (c) not disclose or distribute any Confidential Information to any third party except as and to the extent authorised in writing to do so by the disclosing party.
- II.9.3 The receiving party shall be permitted to disclose Confidential Information that is required or requested to be disclosed by a governmental authority pursuant to applicable law in connection with any other legal or administrative proceeding, provided that it (i) notifies the disclosing party of any such disclosure requirement or request as soon as practicable and (ii) furnishes only that portion of the Confidential Information which, in the opinion of the receiving party or their legal counsel, is responsive to such requirement or request and (iii) asks the court or other public body, if applicable, to treat the Confidential Information as confidential.

- II.9.4 The receiving party shall disclose Confidential Information only to such of its representatives who have a need to know such Confidential Information to fulfil its obligations under this APA; provided, however, before any disclosure of Confidential Information, the receiving party shall bind its representatives receiving such Confidential Information to a written agreement of confidentiality at least as restrictive as contained in this APA; and prior to any disclosure, the receiving party shall instruct its representatives of the confidential nature of, and to maintain the confidentiality of, the Confidential Information. The receiving party shall be responsible for all actions of its representatives, including any breach of the terms hereof, regardless of whether or not such representatives remain employed or in contractual privity with the receiving party.
- II.9.5 Notwithstanding the foregoing, in all cases, (a) the Participating Member States may not disclose any of the financial or indemnification provisions contained in this APA, including the price per dose of Vaccine or refundability of the Advance Payment or any information that could reasonably ascertain the price per dose of Vaccine, without the prior written consent of the Contractor, and (b) the Contractor may disclose Confidential Information to their Affiliates without prior written consent of the Participating Member States.
- II.9.6 The confidentiality obligations set out in this Article II.9 are binding on the Commission, the Participating Member State and the Contractor during the Implementation of the APA and for as long as the information or documents remain confidential unless:
  - (a) the disclosing party agrees to release the receiving party from the confidentiality obligation earlier;
  - (b) the Confidential Information or documents become public through other means than a breach of the confidentiality obligation;
  - (c) the applicable Law requires the disclosure of the Confidential Information or documents.
- II.9.7 The Contractor must obtain from any natural person with the power to represent it or take decisions on its behalf, as well as from third parties involved in the Implementation of the APA a commitment that they will comply with this Article. At the request of the Commission, the Contractor must provide a document providing evidence of this commitment.
- II.9.8 Neither this APA nor the performance by either party hereunder shall transfer to the receiving party any proprietary right, title, interest or claim in or to any of the disclosing party's Confidential Information (including, but not limited to, any intellectual property rights subsisting therein) or be construed as granting a license in its Confidential Information.
- II.9.9 The provisions of this Article II.9 shall survive the termination or expiration of this APA for a period of ten (10) years, except with respect to any information that constitutes a trade secret (as defined by the applicable Law), in which case the recipient of such information will continue to be bound by its obligations under this Article II.9

for so long as such information continues to constitute a trade secret, but in no event for a period of less than the ten (10)-year period specified above.

II.9.10 The Contractor acknowledges that the Commission is subject to requirements laid down under Regulation (EC) 1049/2001. The Commission commits that it will consult with the Contractor on any disclosure request concerning documents containing Confidential Information as provided for in Article 4(4) of said Regulation.

# II.10 ANNOUNCEMENTS AND PUBLICITY

The parties shall consult together on the timing, contents and manner of any press release relating to the execution of this APA. Other than the foregoing, no party shall make, or permit any person to make, any public announcement concerning the existence, subject matter or terms of this APA or a Vaccine Order Form, the wider transactions contemplated by them, or the relationship between the parties, without the prior written consent of the other party (such consent not to be unreasonably withheld or delayed), except (i) as required by law, any governmental or regulatory authority (including, without limitation, any relevant securities exchange), any court or other authority of competent jurisdiction; or (ii) on terms that are consistent and do not go further than the matters covered in any agreed press release. For clarity, unless consent is granted pursuant to this clause II.10, no announcement or disclosure will include or infer the price per dose or the Q4 2020 volumes agreed in the Delivery Schedule or contain information that would be material to the Contractor.

A party shall not use the name, trade name, service marks, trademarks, trade dress or logos of the other party in publicity releases, advertising or any other publication, without the other party's prior written consent in each instance, provided, however, that consent is granted for public announcements pursuant to above sub-clause (ii) in this Article II.10.

# II.11 PROCESSING OF PERSONAL DATA

# II.11.1 Processing of personal data by the Commission

Any personal data included in or relating to the APA, including its implementation, shall be processed in accordance with Regulation (EU) 2018/1725. Such data shall be processed solely for the purposes of the implementation, management and monitoring of the APA by the data controller. For the purpose of this provision, the data controller for the Commission shall be the Director-General of the European Commission's Directorate-General for Health and Food Safety. The data protection notice is available at <a href="https://ec.europa.eu/info/data-protection-public-procurement-procedures\_en">https://ec.europa.eu/info/data-protection-public-procurement-procedures\_en</a>.

The Contractor or any other person whose personal data is processed by the data controller in relation to this APA has specific rights as a data subject under Chapter III (Articles 14-25) of Regulation (EU) 2018/1725, in particular the right to access, rectify or erase their personal data and the right to restrict or, where applicable, the right to object to processing or the right to data portability.

Should the Contractor or any other person whose personal data is processed in relation to this APA have any queries concerning the processing of its personal data, it shall address itself to the data controller. They may also address themselves to the Data Protection Officer of the data

controller. They have the right to lodge a complaint at any time to the European Data Protection Supervisor.

# II.11.2 Processing of personal data by the Contractor

The processing of personal data by the Contractor shall meet the requirements of Regulation (EU) 2016/679 and be processed solely for the purposes set out by the Controller.

# II.12 SUBCONTRACTING

- II.12.1 The Contractor may not subcontract and have the APA implemented by third parties beyond the third parties already mentioned in its tender without prior written notification to the Commission. For the avoidance of doubt, it is agreed that the entities mentioned under points a) to f) of section 2.4.2 of the Commissions' tender specifications shall not be considered subcontractors for the purpose of this Article II.12 and that they can be involved in the service delivery by the Contractor.
- II.12.2 In the case of subcontracting, the Contractor remains bound by its contractual obligations and is solely responsible for the *Implementation of the APA*.
- II.12.3 The Contractor must ensure that the subcontract does not affect the rights of the Commission and the Participating Member States under this APA.
- II.12.4 The Commission may request the Contractor to replace a subcontractor found to be in a situation provided for in points (d) and (e) of Article II.16.1.

# II.13 AMENDMENTS

- II.13.1 Any amendment to the APA or a Vaccine Order Form must be made in writing before all contractual obligations have been fulfilled. A Vaccine Order Form does not constitute an amendment to the APA.
- II.13.2 No amendment can make changes to the APA or a Vaccine Order Form that might alter the initial conditions of the procurement procedure or result in unequal treatment of tenderers or contractors.

# II.14 ASSIGNMENT

Neither this APA nor any interest hereunder will be assignable by a party without the prior written consent of the other party, except as follows: (a) Pfizer may assign its rights and obligations under this APA by way of sale of itself or the sale of the portion of its business to which this APA relates, through merger, sale of assets and/or sale of stock or ownership interest, provided that the assignee will expressly agree to be bound by Pfizer's obligations under this APA and that such sale is not primarily for the benefit of its creditors, (b) Pfizer may assign its rights and obligations under this APA to any of its Affiliates, provided that the assignee will expressly agree to be bound by Pfizer's obligations under this APA and that the Contractor will remain liable for all of its rights and obligations under this APA. In addition, the Contractor may assign its rights and obligations under this APA to a third party where the Contractor or its Affiliate is required, or makes a good faith determination based on advice of counsel, to divest a Product in order to comply with Law or the order of any governmental

authority as a result of a merger or acquisition, provided that the assignee will expressly agree to be bound by the Contractor's obligations under this APA. The Contractor will promptly notify the Commission of any assignment or transfer. This APA will be binding upon the successors and permitted assigns of the parties and the name of a party appearing herein will be deemed to include the names of such party's successors and permitted assigns to the extent necessary to carry out the intent of this APA. For the purposes of this Article II.14, any references to "the Contractor" shall be interpreted as references to "Pfizer and/or BioNTech". For the purposes of the Vaccine Order Form, any references to the "APA" in this Article II.14 shall be interpreted as references to the "Vaccine Order Form".

## II.15 FORCE MAJEURE

- II.15.1 If a party is affected by *Force majeure*, it must immediately *notify* the other party, stating the nature of the circumstances, their likely duration and foreseeable effects.
- II.15.2 A party is not liable for any delay or failure to perform its obligations under the APA or Vaccine Order Form if that delay or failure is a *result of Force majeure*. If the Contractor is unable to fulfil its contractual obligations owing to *Force majeure*, it has the right to remuneration only for the services actually provided.
- II.15.3 The parties must take all necessary measures to limit any damage due to *Force majeure* and shall use commercially reasonable efforts to avoid or minimize the delay in performance of their respective obligations affected by *Force majeure*.

# II.16 SUSPENSION OF THE IMPLEMENTATION OF THE APA

# **II.16.1 Suspension by the Contractor**

If the Contractor or a Participating Contractor Affiliate is affected by *Force majeure*, it may suspend the provision of the services under a Vaccine Order Form.

The Contractor or the Participating Contractor Affiliate must immediately *notify* the Commission of the suspension. The *notification* must include a description of the *Force majeure* and state when the Contractor or the Participating Contractor Affiliate expects to resume the provision of services.

The Contractor or the Participating Contractor Affiliate must *notify* the Commission as soon as it is able to resume *performance of the* Vaccine Order Form, unless the Commission has already terminated the APA or the Vaccine Order Form.

# II.16.2 Suspension by the Commission or the Participating Member State

Pursuant to the Financial Regulation, the Commission or the Participating Member State may suspend the Implementation of the APA or performance of a Vaccine Order Form or any part of it:

(a) if the procedure for awarding the APA or a Vaccine Order Form or the Implementation of the APA proves to have been subject to Irregularities, Fraud (in the sense of the Financial Regulation) or breach of obligations;

(b) in order to verify whether the presumed Irregularities, Fraud (in the sense of the Financial Regulation) or breach of obligations have actually occurred.

The Commission or the Participating Member State in question must formally notify the Contractor of the suspension and the reasons for it. Suspension takes effect on the date of formal notification, or at a later date if the formal notification so provides.

The Commission or the Participating Member State in question must notify the Contractor as soon as the verification is completed whether:

- (a) it is lifting the suspension; or
- (b) it intends to terminate the APA or a Vaccine Order Form under Article II.17.1, (f) or (i).

The Contractor is not entitled to compensation for suspension of any part of the APA or a Vaccine Order Form. For the avoidance of doubt, the Contractor shall not be under any obligation to deliver any Contracted Doses during the suspension period, and the Delivery Schedule shall be adjusted to take into account the period of such suspension. Equally for the avoidance of doubt, the Contractor shall complete the delivery of any Contracted Doses that were already in transit on the date of the formal notification or at the later date indicated in the formal notification.

# II.17 TERMINATION OF THE APA

# II.17.1 Grounds for termination by the Commission

The Commission may terminate the APA or the Participating Member State may terminate any on-going Vaccine Order Form (depending on whether the event affects the APA or the Vaccine Order Form) solely in the following circumstances:

- (a) in the event any of the circumstances referred to in Articles I.6.3(iii), I.6.3(v) or I.6.3(vi) occur;
- (b) if the Contractor does not implement the APA or perform the Vaccine Order Form in accordance with material aspects of the APA or the Vaccine Order Form (as applicable) or is otherwise in material breach of another substantial contractual obligation;
- (c) if the Contractor repeatedly refuse to sign Vaccine Order Forms without cause. Termination of three or more Vaccine Order Forms in these circumstances also constitutes grounds for termination of the APA;
- (d) if the Contractor or any person that assumes unlimited liability for the debts of the Contractor is in one of the situations provided for in points (a) and (b) of Article 136(1) of the Financial Regulation<sup>5</sup>:
- (e) if the Contractor or any Related person is in one of the situations provided for in points (c) to (h) of Article 136(1) or Article 136(2) of the Financial Regulation;

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Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012, OJ L 193 of 30.7.2018, p.1 <a href="https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1544791836334&uri=CELEX:32018R1046">https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1544791836334&uri=CELEX:32018R1046</a>

- (f) if the procedure for awarding the APA or the Implementation of the APA prove to have been subject to Irregularities, Fraud (in the sense of the Financial Regulation) or breach of obligations;
- (g) if the Contractor is in a situation that does constitute a Conflict of interest or a Professional conflicting interest which would have a material adverse impact on the performance of the APA;
- (h) in case of a change regarding the exclusion situations listed in Article 136 of Regulation (EU) 2018/1046 that calls into question the decision to award the contract;
- (i) in the event of *Force majeure*, where either resuming implementation is impossible or the necessary ensuing amendments to the APA or a Vaccine Order Form would mean that this APA is no longer fulfilled to a substantial degree or result in a substantially unequal treatment of tenderers or contractors.

# II.17.2 Grounds for termination by the Contractor

The Contractor may terminate the APA or any on-going Vaccine Order Form solely in the following circumstances:

- (a) if the Commission or the Participating Member State does not implement the APA or perform the Vaccine Order Form in accordance with material aspects of the APA or the Vaccine Order Form (as applicable) or is otherwise in material breach of another substantial contractual obligation, including the Commission's obligation to communicate the allocation of the Contracted Doses, the Commission's obligation to pay the Advance Payment, the Participating Member States' obligation to submit a duly completed Vaccine Order Form in accordance with the allocation, the Participating Member States' obligation to accept delivery of the Contracted Doses, and the Participating Member States' obligation to pay the price of the Contracted Doses; or
- (b) in the event any of the circumstances referred to in Articles I.6.3(iii), I.6.3(v) or I.6.3(vi) occur.

# **II.17.3 Procedure for termination**

A party must *formally notify* the other party of its intention to terminate the APA or a Vaccine Order Form and the grounds for termination.

The other party has 30 days following the date of receipt to submit observations, including the measures it has taken or will take to continue fulfilling its contractual obligations. Failing that, the decision to terminate becomes enforceable the day after the time limit for submitting observations has elapsed in the event the grounds giving rise to termination have not been cured.

If the other party submits observations, the party intending to terminate must formally notify it.

# II.17.4 Effects of termination

Within 60 days of the date of termination, the Contractor must submit any invoice required for services that were provided before the date of termination. The Advance Payment will be refunded to the Commission if either party terminates the APA pursuant to Article I.6.3(iii) or

Article I.6.3(v), and the Advance Payment for Contracted Doses not delivered will be refunded to the Commission if either party terminates the APA pursuant to Article I.6.3 (vi).

The termination or expiration of this APA shall not affect the survival and continuing validity of Articles I.1, I.2, I.4, I.6.7, I.6.9, I.6.11, I.6.12, I.6.14, I.6.16, I.7 to I.9, I.11 to I.14, II.3, II.5, II.6, II.8.2, II.8.4, II.9 to II.11, II.15, II.17.4, II.18 to II.28, Attachment 3 (Delivery Specification) and Attachment 5 (Return and Disposal of Product Materials) or of any other provision which is expressly or by implication intended to continue in force after such termination or expiration.

Expiry or termination of this APA for any reason shall be without prejudice to either party's other rights and remedies or to any accrued rights and liabilities as the date of such expiry or termination; provided that the Contractor shall have no liability for any failure to deliver the Contracted Doses in accordance with any estimated delivery dates set forth herein.

# II.18 INVOICES, VALUE ADDED TAX AND E-INVOICING

# II.18.1 Invoices and value added tax

Invoices must contain the Contractor's or the Participating Contractor Affiliate's (or leader's in the case of a joint tender) identification data, the amount, the currency and the date, as well as the APA reference and reference to the Vaccine Order Form.

Invoices must indicate the place of taxation of the Contractor or the Participating Contractor Affiliate (or leader in the case of a joint tender) for value added tax (VAT) purposes and must specify separately amounts not including VAT and amounts including VAT.

The Commission is exempt from all taxes and duties, including VAT, in accordance with Articles 3 and 4 of the Protocol 7 of the Treaty on the Functioning of the European Union on the privileges and immunities of the European Union.

It is understood and agreed between the parties that any prices stated under this APA and Vaccine Order Form are exclusive of any VAT or similar tax and all other taxes which are incurred as a result of manufacturing and supplying the Product (including custom duties, levies and charges and all local taxes) ("Taxes"), which shall be added thereon as applicable. Where Taxes are properly chargeable on any amounts payable under this APA or Vaccine Order Form, the party making the payment will pay the amount of Taxes, as specified on the invoice, in accordance with the laws and regulations of the country in which the Taxes are chargeable.

In the event any payments made pursuant to this APA become subject to withholding taxes under the laws or regulation of any jurisdiction, the party making such payment shall deduct and withhold the amount of such taxes for the account of the payee to the extent required by applicable laws or regulations and such amounts payable to the payee shall be reduced by the amount of taxes deducted and withheld. Any such withholding taxes required under applicable laws or regulations to be paid or withheld shall be an expense of, and borne solely by, the payee.

# II.19 PAYMENTS AND GUARANTEES

# II.19.1 Date of payment

The date of payment is deemed to be the date on which the Commission's account or the account of the Participating Member State in question is debited.

# II.19.2 Currency

Payments are made in euros or, for non-Eurozone countries, the local functional currency of the Participating Member State. For non-Eurozone countries, the Vaccine Order Form shall set forth the Delivery Price in the local functional currency converted from euro at the exchange rate existing one (1) day prior to the Effective Date of the APA as of 4:00pm London time published in Bloomberg FX Fixings (BFIX), such rates being found via Bloomberg or the website www.bloomberg.com/markets/currencies/fx-fixings.

# II.19.3 Costs of transfer

The costs of the transfer are borne as follows:

- (a) the Commission or the Participating Member State in question bears the costs of dispatch charged by its bank;
- (b) the Contractor or the Participating Contractor Affiliate bears the costs of receipt charged by its bank;
- (c) the party causing repetition of the transfer bears the costs for repeated transfer.

# II.19.4 Suspension of the time allowed for payment

The Commission or the Participating Member State in question may suspend the payment periods specified in Article I.8 at any time by *notifying* the Contractor or the Participating Contractor Affiliate (or leader in the case of a joint tender) that its invoice cannot be processed. The reasons the Commission or the Participating Member State in question may cite for not being able to process an invoice are:

- (a) because it does not comply with the APA or Vaccine Order Form;
- (b) because the Contractor or the Participating Contractor Affiliate has not produced the appropriate documents or deliverables; as required by the APA or a Vaccine Order Form; or
- (c) because the Commission or the Participating Member State in question has reasonable observations on the documents or deliverables submitted with the invoice as not complying with the APA or Vaccine Order Form.

The Commission or the Participating Member State in question must notify the Contractor or the Participating Contractor Affiliate (or leader in the case of joint tender) as soon as possible of any such suspension, giving the reasons for it. In cases b) and c) referred above, the Commission or the Participating Member State in question shall notify the Contractor or the Participating Contractor Affiliate (or leader in case of a joint tender) the time limits to submit additional information or corrections or a new version of the documents or deliverables.

Suspension takes effect on the date the Commission or the Participating Member State in question sends the *notification*. The remaining payment period resumes from the date on which the requested information or revised documents are received or the necessary further verification, including on-the-spot checks, is carried out. Where the suspension period exceeds two months, the Contractor or the Participating Contractor Affiliate (or leader in the case of a joint tender) may request the Commission or the Participating Member State in question to justify the continued suspension.

# II.19.5 Interest on late payment

On expiry of the payment periods specified in Article I.8, the Contractor or the Participating Contractor Affiliate (or leader in the case of a joint tender) is entitled to interest on late payment at the higher of (a) the rate applied by the European Central Bank for its main refinancing operations in euros (the reference rate) plus five points (or such centralized bank reference rate set forth in the Vaccine Order Form) and (b) 2%. The reference rate is the rate in force, as published in the C series of the *Official Journal of the European Union*, on the first day of the month in which the payment period ends.

Suspension of the payment period as provided for in Article II.19.4 is not considered as giving rise to late payment.

Interest on late payment covers the period running from the day following the due date for payment up to and including the date of payment as defined in Article II.19.1.

# II.20 RECOVERY

# **II.20.1 Recovery procedure**

In all cases where the recovery procedure as described in the Financial Regulation applies, the parties shall follow the procedure set out in this Article.

Before recovery, the Commission or the Participating Member State in question must formally notify the Contractor of its intention to recover the amount it claims, specifying the amount due and the reasons for recovery and inviting the Contractor to make any observations within thirty (30) days of receipt.

If no observations have been submitted or if, despite the observations submitted, the Commission or the Participating Member State in question decides to pursue the recovery procedure, it must confirm recovery by formally notifying a debit note to the Contractor, specifying the date of payment. The Contractor must pay in accordance with the provisions specified in the debit note.

If the Contractor does not pay by the due date, the Commission or the Participating Member State in question may, after informing the Contractor in writing, recover the amounts due:

(a) by offsetting them against any amounts owed to the Contractor by the Commission or the Participating Member State in question; by taking legal action.

# II.20.2 Interest on late payment

If the Contractor does not honour the obligation to pay the amount due by the date set by the Commission or the Participating Member State in question, the amount due bears interest at the rate indicated in Article II.19.5. Interest on late payments will cover the period starting on the day after the due date for payment and ending on the date when the Commission or the Participating Member State in question receives the full amount owed.

Any partial payment is first entered against charges and interest on late payment and then against the principal amount.

# II.21 CHECKS AND AUDITS

II.21.1 The Commission and the European Anti-Fraud Office may check or require an audit on the Implementation of the APA. This may be carried out either by OLAF's own staff or by any outside body authorised to do so on its behalf, provided that the auditor may not be a competitor of the Contractor.

Such checks and audits may be initiated at any moment during business hours during the provision of the services and up to five years starting from the payment of the balance of the last specific contract issued under this APA.

The audit procedure is initiated on the date of receipt of the relevant letter sent by the Commission. Audits are carried out on a confidential basis.

- II.21.2 The Contractor must keep all original documents stored on any appropriate medium, including digitised originals if authorised under national law, for a period of five years starting from the payment of the balance of the last specific contract issued under this APA.
- II.21.3 The Contractor must grant the appropriate right of access to sites and premises where the APA is implemented, and to all information, including information in electronic format, needed to conduct such checks and audits. The Contractor must ensure that the information is readily available at the moment of the check or audit and, if so requested, that information is handed over in an appropriate format. The auditor must, insofar possible, comply with all applicable and reasonable security measures notified to Commission by the Contractor subject to this not creating any material obstacles for the performance of the auditor's tasks.
- II.21.4 On the basis of the findings made during the audit, a provisional report is drawn up. The Commission or its authorised representative must send it to the Contractor, who has 30 days following the date of receipt to submit observations. The Contractor must receive the final report within 60 days following the expiry of the deadline to submit observations.

On the basis of the final audit findings, the Commission or the Participating Member State in question may recover all or part of the payments made in accordance with Article II.20 and may take any other measures which it considers necessary.

II.21.5 In accordance with Council Regulation (Euratom, EC) No 2185/96 of 11 November 1996 concerning on-the-spot checks and inspection carried out by the Commission in order to protect the European Communities' financial interests against fraud and other irregularities and Regulation (EU, Euratom) No 883/2013 of the European Parliament and of the Council of 11 September 2013 concerning investigations conducted by the European Anti-Fraud Office, the European Anti-Fraud Office may carry out investigations, including on the spot checks and inspections, to establish whether there has been fraud, corruption or any other illegal activity under the contract affecting the financial interests of the Union. Findings arising from an investigation may lead to criminal prosecution under national law.

The investigations may be carried out at any moment during the provision of the services and up to five years starting from the payment of the balance of the last specific contract issued under this APA.

II.21.6 The Court of Auditors and the European Public Prosecutor's Office established by Council Regulation (EU) 2017/19398 ('the EPPO') have the same rights as the Commission, particularly right of access, for the purpose of checks, audits and investigations.

# II.22 RELATIONSHIP OF THE PARTIES

The relationship hereby established between the Contractor and the Commission is solely that of independent contractors. Neither party has authority to act or make any agreements or representations on behalf of the other party. This APA is not intended to create, and shall not be construed as creating, between the parties, the relationship of principal and agent, employer and employee, joint venturers, co-partners, or any other such relationship, the existence of which is expressly denied.

# II.23 WAIVER

A waiver by any party of any term or condition of this APA in any instance shall not be deemed or construed to be a waiver of such term or condition for the future, or of any subsequent breach thereof. All remedies specified in this APA shall be cumulative and in addition to any other remedies provided at Law or in equity, except where expressly otherwise agreed.

# II.24 FURTHER DOCUMENTS

Each party hereto agrees to execute such further documents and take such further steps as may be reasonably necessary or desirable to effectuate the purposes of this APA.

# II.25 HEADINGS

Headings of Articles or other parts of this APA are included herein for convenience of reference only and shall not constitute a part of this APA or change the meaning of this APA.

## II.26 ELECTRONIC DELIVERY AND STORAGE

Delivery of a signed APA by reliable electronic means, including facsimile or email (with receipt electronically confirmed), shall be an effective method of delivery of the executed APA.

This APA may be stored by electronic means and either an original or an electronically stored copy of this APA can be used for all purposes, including in any proceeding to enforce the rights or obligations of the parties to this APA.

# II.27 ENTIRE AGREEMENT

This APA, together with any Annexes and Attachments, which are hereby incorporated by reference, constitute the entire agreement of the parties with respect to its subject matter and merges and supersedes all prior discussions and writings with respect to thereto.

# II.28 Costs

Each party will bear its own legal costs in preparing and concluding this APA.

# **ANNEX I: VACCINE ORDER FORM**

This Vaccine Order Form is submitted by:

[The Government of [•]] (the "Participating Member State"), represented for the purposes of signing this Vaccine Order Form by [forename, surname, function, department of authorising officer],

to:

[Add details for Contractor]

The Participating Member State and Contractor are together referred to as the "Parties" and each individually as a "Party".

# **WHEREAS**

- Contractor and the European Commission, acting on behalf of and in the name of the Participating Member States, entered into an Advance Purchase Agreement for the purchase and supply of Contractor's Vaccine for EU Member States dated [•] 2020 (the "APA"), the terms of which are binding on the Participating Member States and must be read in conjunction with this Vaccine Order Form.
- The APA provides that each Participating Member State will submit to Contractor a Vaccine Order Form through which Contractor shall make available and deliver to the relevant Participating Member State a proportion of the Contracted Doses or Additional Order as applicable, in accordance with the allocation provided by the Commission pursuant to Article I.6.3 of the APA and at the price and conditions as set out in the APA.
- In accordance with Article I.5.2 of the APA, the [name of Participating Member State] hereby places its order for its full allocated portion of the Contracted Doses or Additional Order (as applicable).

# Article I

# Subject matter

1. This Vaccine Order Form is submitted by [name of the Participating Member State] to Contractor in accordance with the terms of the APA, and forms an integral part of the APA. The terms and conditions of the APA are incorporated into this Vaccine Order Form by reference. In the event of contradiction between this Vaccine Order Form and the APA, the terms of the APA prevail regardless of any provision to the contrary. Any capitalised terms in this Vaccine Order Form will have the meaning attributed to them in the definitions list included in Article I.2 of the APA.

- 2. This Vaccine Order Form relates to the order for the Participating Member State's full allocated portion of the Contracted Doses or the relevant Additional Order (as applicable) as set out in the allocation provided by the Commission to Contractor pursuant to Article I.6.2 of the APA. The submission of this signed Vaccine Order Form by the Member State to Contractor constitutes a binding order by the Member State for the purchase of its full allocated portion of the Contracted Doses or the relevant Additional Order (as applicable) as follows
  - a. [Name of the Member State] will purchase [insert amount] number of doses of [Contracted Doses] [Additional Order] of the Vaccine, on the basis of the following delivery schedule: [insert details of quarterly allocation].
  - b. The Delivery Price of Contracted Doses is [insert price here] euros per dose excl. VAT.

The total amount payable by the Participating Member State for the [Contracted Doses] [Additional Order] is [insert amount], excluding [insert applicable percentage]% VAT.

- 3. By signature of this Vaccine Order Form, the undersigned Member State warrants to Contractor that:
  - a it is irrevocably and unconditionally bound by the terms of the APA (as concluded by the Commission on behalf and in the name of the Participating Member States), including the indemnification obligations and the liability, limitation of liability and exclusions terms set out therein;
  - b the provisions of the APA are enforceable against it in accordance with its terms;
  - c it shall indemnify the Indemnified Persons in accordance with Article I.12 (*Indemnification*) of the APA;
  - d it has full right, power and authority to enter into this Vaccine Order Form and to perform its respective obligations under it;
  - e the person executing this Vaccine Order Form is duly authorized to execute and bind the undersigned Participating Member State to the terms set forth herein and incorporated by reference.
- 4. The Participating Member State acknowledges that the Vaccine and materials related to the Vaccine, and their components and constituent materials are being rapidly developed due to the emergency circumstances of the COVID-19 pandemic and will continue to be studied after provision of the Vaccine to the Participating Member States under the APA. The Participating Member State further acknowledges that the long-

term effects and efficacy of the Vaccine are not currently known and that there may be adverse effects of the Vaccine that are not currently known. Further, to the extent applicable, the Participating Member State acknowledges that the Vaccine shall not be serialized.

5. The Participating Member State represents and warrants that all necessary permissions and approvals have been or will be obtained prior to the time for performance by the Participating Member State, to authorise performance of all of the obligations contained herein.

# **Article II**

# **Delivery, Supply**

- 1. <u>Delivery Address</u>. The Delivery Address for the Participating Member State is as follows:
  - [• *Member State to enter location of its distribution hub*]
- 2. Supply of the Products

The Contractor shall supply the Products as further described in the APA: [Note: Include any additional details concerning the supply here.]

# Article III Invoices; Notices

1. <u>Invoice and Payments</u>. Contractor shall invoice the Participating Member State in accordance with the terms of the APA. All payments to Contractor or its designated Affiliate shall be made in accordance with the terms of the APA.

Payment shall be made in the following currency pursuant to the provisions of Article II.19.2: [to be completed].

2. <u>Notice</u>. Any notice given under this Vaccine Order Form must a) be made in writing in English in paper or electronic format; b) bear the APA number and the number of this Vaccine Order Form; c) be made using the relevant communication details set out below with respect to the Member State and Contractor (as applicable); d) be sent by mail and email:

# Participating Member State:

[Name of Participating Member State]

[Full official address of Participating Member State]

[Full name of addressee physical person (contact person)]

[Function of addressee physical person (contact person)]

E-mail: [complete email of addressee physical person (contact person)]

Contractor: [Add details]

# Article IV.

# **Entry into Force and Duration**

1. This Vaccine Order Form shall enter into force on the date of signature by the Parties and will remain into force until termination of the APA, or if the APA expires, until the last delivery of Product which in any event must take place within 6 months of such expiry.

# Article V. Applicable Law and Settlement of Disputes

1. For the avoidance of doubt, Article I.13 (*Applicable Law and Settlement of Disputes*) of the APA shall apply to any dispute arising out of the implementation of or in connection with this Vaccine Order Form and the Participating Member State irrevocably agrees to be bound by the provisions set out therein.

(Signature page follows)

# **SIGNATURES**

For the Participating Member State,
[forename/surname/position]
Signature:
Done at [place], [date]
For acceptance of the Vaccine Order Form,
[Contractor],
[forename/surname/position]
Signature:
Done at [place], [date]

The invoice will be paid only once the Contractor has returned the signed Vaccine Order Form.

# ANNEX II: AGREEMENT BETWEEN THE COMMISSION AND MEMBER STATES ON PROCURING COVID-19 VACCINES ON BEHALF OF THE MEMBER STATES AND RELATED PROCEDURES, ANNEXED TO THE COMMISSION DECISION C(2020) 4192 FINAL OF 18 JUNE 2020

# Agreement

## **Preamble**

Having regard to Article 4(5)(b) of Council regulation (EU) 2016/369 on the provision of emergency support within the Union1as amended by Council regulation (EU) 2020/521 of 14 April 2020 activating the emergency support under regulation (EU) 2016/369, and amending its provisions taking into account the COVID-19 outbreak (hereinafter "ESI" or "ESI regulation");

\*\*\*

The European Commission ("the Commission")

and

The following Member States: (XXX), hereinafter referred to as "the Participating Member States"

Together referred to as "the Parties"

Agree on the Following:

Article 1: Objective and mandate of the Commission

On the basis of the present agreement, the Commission is mandated to conclude, on behalf of the Participating Member States, Advance Purchase Agreements ("APA") with vaccine manufacturers with the objective to procure vaccines for the purposes of combatting the COVID 19 pandemic at Union level.

The Annex to this agreement sets out the negotiating directives for this purpose.

Article 2: Acquisition of vaccine doses

It is the Participating Member States, and not the Commission, that shall acquire vaccine doses from the manufacturers on the basis of the APAs unless otherwise agreed. All relevant vaccination policies shall therefore remain matters for the Participating Member States.

Article 3: APAs containing a right to acquire vaccine doses

Where the Commission concludes an APA in conformity with the present agreement that provides the right for the Participating Member States to acquire vaccine doses, the use of such a right shall take place by means of the conclusion of contracts between the Participating Member States and the vaccine manufacturers. There shall be no obligation for any Participating Member State to conclude such a contract on the basis of the APA. The APA shall contain a clause to this end.

Article 4: APAs containing an obligation to acquire vaccine doses

Where the Commission intends to conclude, in conformity with the present agreement, an APA containing an obligation to acquire vaccine doses, it shall inform the Participating Member

States of such intention and the detailed terms. In case a Participating Member State does not agree with the conclusion of an APA containing an obligation to acquire vaccine doses or its terms, it has the right to opt out by explicit notification to the Commission within 5 working days after the Commission has communicated its intention to conclude the APA. All Participating Member States not having opted out within the period of 5 working days are deemed to have authorised the Commission to negotiate and conclude the APA with the vaccine manufacturer in their name and on their behalf.

# Article 5: The legally binding nature of APAs

Once concluded, the terms of the APA shall be legally binding on the Participating Member States, except for those who have exercised their right to opt out.

# Article 6: Responsibility and liability

The present Agreement regulates only the division of potential liability and indemnification between the Commission and the Participating Member States. It does not regulate the extent to or the conditions under which potential liability of the vaccine manufacturer may be taken over or indemnified under the APAs.

The Commission shall be exclusively responsible for the procurement process and the conclusion of APAs including any liability arising out of the conduct of the negotiations.

Participating Member States acquiring a vaccine shall be responsible for the deployment and use of the vaccines under their national vaccination strategies, and shall bear any liability associated with such use and deployment. This shall extend to and include any indemnification of vaccine manufacturers under the terms and conditions of the relevant APA for liability related to the use and deployment of vaccines normally borne by such manufacturer.

# Article 7: Obligation not to negotiate separately

By signing the present Agreement, the Participating Member States confirm their participation in the procedure and agree not to launch their own procedures for advance purchase of that vaccine with the same manufacturers.

In case an APA containing an obligation to acquire vaccine doses has been concluded with a specific manufacturer, the Member States having made use of the opt-out provided under the present Agreement can enter into separate negotiations with the same manufacturer after the APA under the present Agreement has been signed.

### Annex

# **Initial considerations**

A permanent solution to the COVID-19 crisis is most likely to be brought about by the development and deployment of a safe and effective vaccine against the virus. Every month gained in the deployment of a vaccine will save many lives, many jobs and billions of euros.

Therefore, it is the objective of the present Agreement that the EU takes steps to secure sufficient supplies of a safe and effective vaccine for Member States.

# Structure and purpose of the procurement

Work on a COVID-19 vaccine is challenging for many reasons: the shortened development timeframe, the large upfront costs for manufacturers, the high failure rate during clinical trials. If vaccine producers follow their usual practice of making investments in production capacity only when they are sure of a viable product, this will result in considerably longer waiting times for a vaccine. Investments need to be made now in order to ensure that vaccines are being produced at the scale required as early as possible.

Under the present agreement, this challenge will be addressed through concluding EU-level Advance Purchase Agreements ("APA") with vaccine manufacturers when necessary, to secure access to vaccine candidates where they are successful, including up-front EU financing to de-risk essential investments to increase the speed and scale of manufacturing successful vaccines. Funding for the up-front payments will come from the Emergency Support Instrument (ESI).

The Parties understand that developing a safe and effective vaccine is a highly complex process and the risk of failure in any such venture is very high. Therefore, the aim is to put in place APAs with a number of manufacturers of leading vaccine candidates, to maximise the chances of having access to at least one successful vaccine.

The Commission will invite all vaccine manufacturers to manifest interest. In general, the Commission will give priority to negotiating specific APAs with those manufacturers that (a) have entered or have firm plans to enter clinical trials still in 2020, (b) have the capacity to develop a successful vaccine and (c) have a proven capacity to produce at scale already in 2021.

# Process and governance

In order to run the procurement centrally and efficiently, the European Commission will set up a steering board for the process subject to Article 6 of the present Agreement. It will be cochaired by the European Commission and a Participating Member State with experience in the negotiations and production capacities for vaccines. The steering board will include senior officials from all Participating Member States to assist and provide guidance throughout the evaluation process.

The co-chairs of the steering board will propose a team of a limited number of experts with relevant experience for the ongoing negotiations from six Participating Member States with production capacities for vaccines. These experts will join with the European Commission in a negotiation team ("joint negotiation team"), which will work on a continuous basis as one unit. That joint negotiation team will start work immediately building on previous contacts with individual companies by the European Commission and Participating Member States. In order to launch negotiations with a specific manufacturer, there needs to be support from at least four Participating Member States. The joint negotiation team will make its best effort to take the advice of the steering board into account in the negotiations and will report back to the steering board on a regular basis on the progress made in negotiating with individual companies.

For compliance with the applicable rules, all members of the steering board and the joint negotiation team will obtain the status of experts associated to the procurement process as provided in the Financial Regulation. Given their access to highly sensitive business information, all those members will be required to sign strict confidentiality and no-conflict-of-interest agreements.

Assisted by the steering board, the European Commission will then decide which of the resulting APAs should be concluded, in particular if financing under ESI is insufficient to finance all relevant packages. The Commission will only consider those APAs for financing where at least four Participation Member States have expressed agreement. Before making any final decisions, the Commission

will seek independent scientific advice on the state of progress and the available data on quality, safety and efficacy for the vaccine candidate in question.

Should financing under ESI be insufficient, Participating Member States can decide to top up ESI funding to make up the gap to finance all packages. In such a case where there are opportunities to conclude further APAs but money from ESI is no longer sufficient, Participating Member States will have the opportunity to express their interest in such opportunities. If at least four Participating Member States express interest, those Participating Member States will make use of the possibility of a voluntary contribution to ESI to the required amount allowing the Commission to proceed with signing the APA only on behalf of those Member States that have expressed interest and contributed the funds to ESI.

For full transparency, the European Commission will report to the IPCR at least once every two weeks on overall progress more generally.

# **Advanced Purchase Agreements and conditions**

To conclude APAs, the joint negotiating team will negotiate funding packages with individual vaccine producers in return for the right to buy a specific number of vaccine doses in a given timeframe and at a certain price.

As outlined in the present Agreement, the European Commission also has the possibility to conclude APAs including an obligation to procure the vaccine if it becomes available, where the conditions (notably the pricing) of those APAs make this worthwhile and in line with the conditions in the present Agreement. If in such a case the distinction between upfront payments and purchase price is difficult to draw, the Commission will share the total cost related to the vaccine purchase but will in any case contribute no more than 50% of the total cost.

Funding provided up front will be considered as an advance payment for any eventual purchase by Member States, thus reducing the amount that Member States will have to pay when eventually purchasing that vaccine.

The up-front payments under the APAs shall be used by manufacturers to de-risk the necessary investments related to both vaccine development and clinical trials, and the preparation of the atscale production capacity along the entire vaccine production value chain in the EU required for a rapid deployment of millions of doses of an eventual vaccine. The relevant payments should be structured according to the need of the manufacturer, but subject to the state of the vaccine development, in particular relying on transparency of the associated clinical data and its assessment, at the time of payment. This is in order to avoid obligations to pay in situations where the development work has shown a vaccine candidate likely to be unsuccessful.

The purchase price of the vaccine, as well as the amount of funding provided up front will take into account a transparent estimation of production costs (supported by independent audits where available), as well as the resources already granted from other public sources. Under the APA, the manufacturer can be asked to provide ex post proof supported by independent audits concerning the activities financed by these payments.

The aim of the negotiation is to conclude APAs with individual companies under the best possible conditions. These APAs should specify details with respect to:

a) Payments to be made, such as payment amounts, payment schedules, type of payments requested and the use of those payments related to de-risk investment, financing clinical trials, providing working capital and scaling-up production capacity;

b) Delivery details of the vaccine if successful, such as price per person immunised (or alternatively, number of doses required per person immunised and price per dose), quantity of doses to be delivered and delivery timeline following approval;

and

c) Any other relevant conditions, such as production capacity built or used in the EU or liability arrangements.

For liability arrangements, the joint negotiation team will make its best effort to limit what is required by individual companies for the purpose of indemnification to be included in the terms and conditions of the APA.

The APAs will contain provisions to clarify the law applicable to both the APA and resulting purchase orders as well as the competent courts. The Participating Member States agree that each APA negotiated by the Commission on their behalf with a vaccine manufacturer will have the same applicable law for all Participating Member States, and that the courts corresponding to that applicable law will be competent to hear disputes arising from that APA.

When taking a decision to finance individual APAs, the European Commission, in consultation with the steering board, will take into account the following elements: any available data on quality, safety and efficacy of the vaccine at time of negotiation of the contract, speed of delivery at scale, cost, risk-sharing, diversification of technologies, capacity to supply through development of production capacity within the EU, possible flexible future use of any capacity funded, engagement at an early stage with EU regulators with the intention to apply for an EU marketing authorisation for the candidate vaccine(s), commitment to supply vulnerable countries.

The procedure outlined above complies with the ESI Regulation and the Financial Regulation. The latter is aligned to the European procurement Directives, which also provide the basis for national procurement rules. Participating Member States may rely on the procedure run by the European Commission to directly purchase vaccines from the manufacturers as and when any of the vaccines becomes available based on the conditions laid down in the APA. Access to vaccine doses will be allocated to Participating Member States according to the population distribution key.

In the negotiations with the pharmaceutical industry under the present Agreement, the Commission will promote a Covid-19 vaccine as a global public good. This promotion will include access for low and middle income countries to these vaccines in sufficient quantity and at low prices. The Commission will seek to promote related questions with the pharmaceutical industry regarding intellectual property sharing, especially when such IP has been developed with public support, in order to these objectives. Any vaccines available for purchase under the APAs concluded but not needed and purchased by Participating Member States can be made available to the global solidarity effort.

# **SENSITIVE**

# **ANNEX III: PARTICIPATING MEMBER STATES**

Germany
France
Italy
Spain
Austria
Greece
Cyprus
Malta
Denmark
Sweden
Finland
Ireland
Portugal
Belgium
Luxembourg
Netherlands
Poland
Romania
Bulgaria
Slovenia
Croatia
Czech Republic
Hungary
Slovakia
Lithuania
Latvia
Estonia

# **ANNEX IV: SUBCONTRACTORS**

Polymun Scientific Immunbiologische Forschung GmbH, Donaustrasse 99, Klosterneuburg, Niederoesterreich 3400, Austria

Dermapharm AG, Lil-Dagover-Ring 7, 82031 Grünwald, Germany

Rentschler Biopharma SE (Rentschler), located at Erwin-Rentschler-Str. 21, 88471 Laupheim, Germany

# ANNEX V – PARTICIPATING CONTRACTOR AFFILIATES

Country	Participating Contractor Affiliate
Germany	BioNTech Europe GmbH
France	Pfizer SAS
Italy	Pfizer S.r.l.
Spain	Pfizer S.L.U.
Austria	Pfizer Corporation Austria GmbH
Greece	Pfizer Hellas SA
Cyprus	Pfizer Hellas SA
Malta	Pfizer Hellas SA
Denmark	Pfizer ApS
Sweden	Pfizer Innovations AB
Finland	Pfizer Finland Oy
Ireland	Pfizer Healthcare Ireland
Portugal	Pfizer Biofarmacêutica Sociedade Unipessoal, Lda
Belgium	Pfizer SA
Luxembourg	Pfizer Luxembourg S.A.R.L.
Netherlands	Pfizer BV
Poland	Pfizer Trading Polska sp. z o.o.
Romania	Pfizer Romania SRL
Bulgaria	Pfizer Export B.V.
Slovenia	Pfizer Export B.V.
Croatia	Pfizer Export B.V.
Czech Republic	Pfizer PFE, spol. s r.o.
	After 1/12 shall be merged into Pfizer, spol. s r.o.
Hungary	Pfizer Gyógyszerkereskedelmi Kft.
Slovakia	Pfizer Export B.V.
Lithuania	Pfizer Export B.V.
Latvia	Pfizer Export B.V.
Estonia	Pfizer Export B.V.

# **ATTACHMENT 1: SPECIFICATIONS**



# Biotherapeutics Pharmaceutical Sciences Specification Review Team INX100421728, Version 4

To: David Cirelli

From: Jeff Ryczek

Date: 14-Aug-2020

Subject: Specification Report for PF-07305885 COVID-19 Vaccine BNT162b2 mRNA Drug

Substance

CC: Margaret Ruesch, Justin Sperry, Amy St Charles, Susan John, Mary Denton,

Specification Review Team

# 1.0 Notification of Changes

This report has been updated to add process performance qualification (PPQ) drug substance specifications. Table 2-1 has been amended to add the LIMS Product Name for the PPQ drug substance. Initial drug substance specifications are retained in Section 3.0 and remain unchanged versus version 3 of this document. PPQ drug substance specifications are added as Section 4.0. Minor changes to text and table headers were made in order to differentiate the initial and PPQ drug substance specification sections.

A summary of changes between the initial and the PPQ specifications is captured in Table 1-1.

Table 1-1: Changes to DS Specifications from Initial to PPQ

	Analytical Procedure	Quality Attribute	Acceptance Criteria	Procedure Number	Release, Stability, or Both	Rationale for Change	Date of Change
Previous Version	RP-HPLC	5'-Cap	Report Results	TM100010578	Both	Method elevated from additional	
Current Version	RP-HPLC	5'-Cap	≥ 50% 5'-Cap	TM100010578	Both	test to registered test with endorsed acceptance criteria.	14-Aug-2020
Previous Version	ddPCR	Poly (A) Tail	Report Results	TM100010379	Both	Method elevated from additional	14-Aug-2020
Current Version	ddPCR	Poly (A) Tail	≥ 70% Poly (A) Tail	TM100010379	Both	test to registered test with endorsed acceptance criteria.	
Previous Version	ddPCR	RNA Integrity	Report Results	TM100010379	Both	ddPCR for RNA	
Current Version	N/A	N/A	N/A	N/A	N/A	Integrity removed as additional test.	14-Aug-2020

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# Specification Report Template

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Impact assessment	
Supplies in inventory:	
These Specification changes have <b>no impact</b> on approved supplies in inventory	
☐ These Specification changes impact the following lots in inventory:	
Regulatory commitments:	
These Specification changes have <b>no impact</b> on regulatory submissions	
☐ These Specification changes may impact regulatory submissions	

# 2.0 PRODUCT INFORMATION

A brief description of the product and other information relevant to establishing the specification are provided in Table 2-1.

**Table 2-1: General Product Description** 

Product Information		
Product Name	PF-07305885 COVID-19 Vaccine mRNA Drug Substance	
LIMS Product Name	DS-001426 Initial Specifications (Section 3.0) DS-001477 PPQ Specifications (Section 4.0)	
BNT Vaccine Code	BNT162b2	
BNT RNA Code	RBP020.2	
Plasmid PF# (BNT Plasmid Code)	PF-07305883 (pST4-1525)	
General Properties		
mRNA Type	modRNA	
Modified NTP	N1-Methylpseudourodine-5'-triphosphate (m1ΨΤΡ)	
5' Cap Analog	m <sub>2</sub> <sup>7,3'-O</sup> Gppp(m <sub>1</sub> <sup>2'-O</sup> )ApG	
Encoded Antigen	Full Spike Protein, S-P2 Variant	
mRNA Length	4,283 nt	
Theoretical Molecular Weight	1,388,651 g/mol	
Specific Absorption Coefficient at 260 nm	25,0 mL/(mg*cm)	
Manufacturing, Formulat	ion, Dose	
Manufacturing Process	In vitro transcription and tangential flow filtration (IVT/TFF)	
Formulation	10 mM HEPES 0.1 mM EDTA pH 7.0	
Maximum dose	30 μg flat dose	

## **Specification Report Template**

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# 3.0 INITIAL SPECIFICATIONS FOR DRUG SUBSTANCE

Analytical test methods contained in this section were chosen to ensure the quality, identity, and purity of the PF-07305885 drug substance throughout the manufacturing process and during long term storage under recommended storage conditions. The initial release specifications for PF-07305885 drug substance (LIMS Product Name DS-001426) are provided in Table 3-1. These are the analytical requirements for batch release listed in LIMS as the Drug Substance Specification. Analytical procedures and acceptance criteria applicable to the PF-07305885 drug substance stability program are noted in the table.

Table 3-1: Initial Drug Substance Specification

Analytical Procedure	Quality Attribute	Acceptance Criteria	LIMS Target	Procedure Number	Stability Protocol
Composition and S	Strength				
Appearance (Clarity)	Clarity	≤ 6 NTU	≤ 3 NTU	TM100010539	Yes
Appearance (Coloration)	Coloration	Not more intensely colored than level 7 of the brown (B) color standard.		TM100010539	Yes
Potentiometry	pH	$7.0 \pm 0.5$		TM100010538	Yes
UV Spectroscopy	Content (RNA Concentration)	2.00 - 2.50 mg/mL		TM100010308	Yes
Identity					
RT-PCR	Identity of Encoded RNA Sequence	Identity confirmed		TM100010407	No
Product Purity					
Capillary Gel Electrophoresis	RNA Integrity	≥ 50 % intact RNA		TM100010392	Yes
Product-Related Ir	mpurities				
qPCR	Residual DNA Template	≤ 330 ng DNA / mg RNA		TM100010388	No
Immunoblot	Residual Double Stranded RNA (dsRNA)	≤ 1000 pg dsRNA / μg RNA		TM100010474	No
Adventitious Agen	nts	A			
Endotoxin (LAL)	Bacterial Endotoxins	≤ 12.5 EU/mL		TM100001884	Yes
Bioburden	Bioburden	≤ 1 CFU / 10 mL		TM100002094	Yes

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# **Specification Report Template**

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Additional analytical tests as listed in Table 3-2 are performed for each drug substance batch to gain further information about the normal range of drug substance manufacturing process variation, to evaluate new methods, or to monitor the significance of the attribute(s) measured by these tests.

Table 3-2: Initial Additional Tests for Drug Substance

Analytical Procedure	Quality Attribute	Acceptance Criteria	LIMS Target	Procedure Number	Stability Protocol
Appearance (visual)	Visible particulates	NA (information only)	Report Results	TM100010539	Yes
Osmolality	Osmolality	NA (information only)	Report Results	TM100010540	No
Agarose Gel Electrophoresis	Identity: RNA length	NA (information only)	Report Results	TM100010316	No
	Identity: as RNA	NA (information only)	Report Results		No
RP-HPLC	5'-Cap	NA (information only)	Report Results	TM100010578	Yes
ddPCR	RNA Integrity	NA (information only)	Report Results		Yes
	Poly(A) Tail	NA (information only)	Report Results	TM100010379	Yes

Table 3-3 lists the analytical method(s) that will be performed for characterization purposes.

Table 3-3: Initial Characterization Tests for Drug Substance

Analytical	Quality Attribute	Procedure	Stability	
Procedure		Number	Protocol	
RP-HPLC	Poly(A) Tail: Length and Distribution	TM100010391	Yes	

## **Specification Report Template**

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# 4.0 PPQ SPECIFICATIONS FOR DRUG SUBSTANCE

Analytical test methods contained in this section were chosen to ensure the quality, identity, and purity of the PF-07305885 drug substance throughout the manufacturing process and during long term storage under recommended storage conditions. The process performance qualification (PPQ) release specifications for PF-07305885 drug substance (LIMS Product Name DS-001477) are provided in Table 4-1. These are the analytical requirements for batch release listed in LIMS as the Drug Substance Specification. Analytical procedures and acceptance criteria applicable to the PF-07305885 drug substance stability program are noted in the table.

Table 4-1: PPO Drug Substance Specification

Analytical Procedure	Quality Attribute	Acceptance Criteria	LIMS Target	Procedure Number	Stability Protocol
Composition and S	Strength				
Appearance (Clarity)	Clarity	≤ 6 NTU	≤ 3 NTU	TM100010539	Yes
Appearance (Coloration)	Coloration	Not more intensely colored than level 7 of the brown (B) color standard.		TM100010539	Yes
Potentiometry	pH	$7.0 \pm 0.5$		TM100010538	Yes
UV Spectroscopy	Content (RNA Concentration)	2.00 2.50 mg/mL		TM100010308	Yes
Identity					
RT-PCR	Identity of Encoded RNA Sequence	Identity confirmed		TM100010407	No
Product Purity					
Capillary Gel Electrophoresis	RNA Integrity	≥ 50 % intact RNA		TM100010392	Yes
RP-HPLC	5'-Cap	≥ 50% 5'-Cap		TM100010578	Yes
ddPCR	Poly (A) Tail	≥ 70% Poly (A) Tail		TM100010379	Yes
Product-Related In	npurities	4			
qPCR	Residual DNA Template	≤330 ng DNA/mg RNA		TM100010388	No
Immunoblot	Residual Double Stranded RNA (dsRNA)	≤ 1000 pg dsRNA / μg RNA		TM100010474	No

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Analytical Procedure	Quality Attribute	Acceptance Criteria	LIMS Target	Procedure Number	Stability Protocol
Adventitious Ager	nts				
Endotoxin (LAL)	Bacterial Endotoxins	≤ 12.5 EU/mL		TM100001884	Yes
Bioburden	Bioburden	≤ 1 CFU / 10 mL		TM100002094	Yes

Additional analytical tests as listed in Table 4-2 are performed for each clinical drug substance batch to gain further information about the normal range of drug substance manufacturing process variation, to evaluate new methods, or to monitor the significance of the attribute(s) measured by these tests.

Table 4-2: PPO Additional Tests for Drug Substance

Analytical Procedure	Quality Attribute	Acceptance Criteria	LIMS Target	Procedure Number	Stability Protocol
Appearance (visual)	Visible particulates	NA (information only)	Report Results	TM100010539	Yes
Osmolality	Osmolality	NA (information only)	Report Results	TM100010540	No
Agarose Gel Electrophoresis	Identity: RNA length	NA (information only)	Report Results	TM100010316	No
	Identity; as RNA	NA (information only)	Report Results	TMT000T03T0	No

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# **Document Approval Record**

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