

Réseau des laboratoires « ONCOSTAB »
-
Centre Hospitalier Universitaire de **Nancy**
Service pharmacie
Laboratoire de contrôle



Responsabilités

- Chef de service : Pr Béatrice Demoré : b.demore@chru-nancy.fr
- Laboratoire de contrôle : E.D'HUART@chru-nancy.fr

Domaines principaux d'études de stabilité

- Anticancéreux hors anticorps monoclonaux
- Antibiotiques
- Etudes de compatibilité physique

Equipements disponibles

- Techniques séparatives
 - CLHP détecteur à barrettes de diodes (DAD)
 - CLHP avec détecteur à diffraction de lumière (DEDL)
- Techniques spectrophotométriques
 - spectrophotomètre UV-visible
 - spectrophotomètre infrarouge
- Stabilité physique
 - microscope
 - compteur de particules
- Stérilité
 - Etuve
- Autres appareillages
 - Potentiomètre
 - Conductivimètre
 - Recherche d'endotoxines
 - Etuve ICH
 - Hotte pour manipulation cytotoxique dédiée labo
 - Bain à ultrasons
 - Osmomètre

Publications sélectionnées dans Stabilis®

D'Huart E, Sacrez M, Vigneron J, Demoré B.

Physicochemical stability of **Cabazitaxel** Zentiva® solution in vials after opening and diluted-solutions in three infusion bags.

Pharmaceutical Technology in Hospital Pharmacy - 2023 - ; 8(1): 20220009

Loeuille G, D'Huart E, Vigneron J, Nisse YE, Beiler B, Polo C, Ayari G, Sacrez M, Demoré B, Charmillon A.

Stability studies of 16 **Antibiotics** for Continuous Infusion in Intensive Care Units and for Performing Outpatient Parenteral Antimicrobial Therapy.

Antibiotics - 2022 - ;11,4: 458

Trambloy Q, Vigneron J, Clarot I, Blaise F, D'Huart E, Demoré B.

Physicochemical stability of **azacitidine** suspensions at 25 mg/mL in polypropylene syringes stored under different conditions of storage.

Pharmaceutical Technology in Hospital Pharmacy - 2022 - 2022; 7(1): 20220003

Ayari G, D'Huart E, Vigneron J, Demoré B.

Y-site compatibility of intravenous medications commonly used in intensive care units :

laboratory tests on 75 mixtures involving nine main drugs.
Pharmaceutical Technology in Hospital Pharmacy - 2022 –

Nisse Y-E, Sobalak N, Vigneron J, Demoré B.
Physicochemical stability of **pemetrexed diarginine** at 25 mg/mL in partially-used vials and at 3 and 12 mg/mL diluted in dextrose 5% or in sodium chloride 0.9% in polyolefin bags.
EJOP - 2022 ; 5: 2.

Stability of **mitomycin** in polypropylene syringes for use in glaucoma surgery.
Nisse, Y.E, Vigneron J, Zenier H, D’Huart E, Demoré B. (infostab@wanadoo.fr)
EJOP - 2021 - 4: 1.

Loeuille G, Vigneron J, D’Huart E, Demoré B.
Physicochemical stability of **lurbectedin** reconstituted at 500 µg/mL and diluted at 15, 30, and 70 µg/mL in 0.9% sodium chloride and 5% dextrose.
EJOP - 2021 - ; 4: 3.

D’Huart E, Vigneron J, Lider P, Demoré B.
Physicochemical stability of **etoposide** diluted at range concentrations between 0.38 and 1.75 mg/mL in polyolefin bags.
EJHP - 2020 - ; 27, 1: 43-48.

Polo C, D’Huart E, Lesperlette G, Vigneron J, Meyer F, Demoré B.
Compatibility of injectable **posaconazole** with drugs commonly used in a hematology care unit.
Pharmaceutical Technology in Hospital Pharmacy 2020

D’Huart E, Vigneron J, Clarot I, Demoré B.
Physicochemical stability of **norepinephrine bitartrate** in polypropylene syringes at high concentrations for intensive care units.
Ann Pharm Fr 2019 ;77,3:212-221.

D’Huart E, Vigneron J, Demoré B.
Physical Compatibility of Intravenous Drugs Commonly Used in Intensive Care Units: An Observational Study and Physical Compatibility Laboratory Tests on Anti-Infective Drugs
Pharmaceutical Technology in Hospital Pharmacy 2019 ;4,1:29-40

D’Huart E, Vigneron J, Clarot I, Demoré B.
Physicochemical stability of **nefopam and nefopam/droperidol** solutions in polypropylene syringes for intensive care units.
EJHP - 2019 –

D’Huart E, Vigneron J, Blaise F, Charmillon A, Demoré B.
Physicochemical Stability of **Cefotaxime** Sodium in Polypropylene Syringes at High Concentrations for Intensive Care Units.
D’Huart E, Vigneron J, Blaise F, Charmillon A, Demoré B.
Pharmaceutical Technology in Hospital Pharmacy - 2019

D’Huart E, Vigneron J, Charmillon A, Clarot I, Demoré B.
Physicochemical Stability of **Vancomycin** at High Concentrations in Polypropylene Syringes.

Can J Hosp Pharm 2019 ;72(5):360-8

Beiler B, Barraud D, Vigneron J, Demoré B.

Physicochemical stability of an admixture of **lidocaine and ketamine** in polypropylene syringe used in opioid-free anaesthesia.

EJHP 2019 ;0:1-5

Vigneron J, D'Huart E, Demoré B.

Stability of **Bendamustine** Solutions: Influence of Sodium Chloride Concentration, Temperature and Container.

Pharmaceutical Technology in Hospital Pharmacy 2018 ;3,1:13-21

D'Huart E, Vigneron J, Ranchon F, Vantard N, Rioufol C, Demoré B.

Physico-Chemical Stability of **Sodium Thiosulfate** Infusion Solutions in Polyolefin Bags at Room Temperature over a Period of 24 Hours.

Pharmaceutical Technology in Hospital Pharmacy - 2018 - ;3,3:135-142

Potier A, Voyat J, Nicolas A.

Stability study of a **clonidine** oral solution in a novel vehicle designed for pediatric patients.

Pharm Dev Technol 2017

Loboda C, Lider P, Vigneron J.

Incompatibility of **busulfan** with 1 ml Luer-Lock syringes.

J Oncol Pharm Practice - 2016 - ; 22: 571-572

Giovanelli M, Vigneron J, May I, Nicolas A.

Etude de la stabilité d'une solution de **bortézomib** à 2,5 mg/mL par chromatographie liquide à haute performance couplée à un détecteur à barrettes de diodes et à un détecteur évaporatif à diffusion de lumière.

SFPO Congress, Mandelieu, France 2013

Vigneron J, Zenier H, May I, Nicolas A.

Stabilité du **melphalan** à 2 mg/ml dans le chlorure de sodium 0,9% dans des conditions pratiques d'utilisation.

SFPO Congress, Mandelieu, France. 2013

Daul A, Vigneron J, Zenier H, May I, Demoré B.

Stability of frozen **ceftazidime** in polypropylene syringes for intravitreal injection.

EAHP Congress - Paris - 2013

Rughoo L, Vigneron J, Zenier H, May I, Demoré B.

Stability study of **amiodarone** hydrochloride in capsules for paediatric patients using a high-performance liquid chromatography method.

Ann Pharm Fr - 2012 - ; 70, 2: 88-93.

Duriez A, Vigneron J.H, Zenier H.A, May I, Demoré B.M.

Stability of **Azacitidine** Suspensions.

Duriez A, Vigneron J.H, Zenier H.A, May I, Demoré B.M.

Ann Pharmacotherapy - 2011 - ;45, 4:546.

- Perissutti M, Vigneron J, Zenier H, May I, Demoré B.
Etude de la stabilité d'une solution de **bortézomib** à 1 mg/mL conditionnée en seringue de polypropylène.
Congrès SFPO - 2011
- Rondelot G, Serrurier C, Vigneron J, Zenier H, May I, Demoré B.
Stability of **pemetrexed** 25 mg/ml in a glass vial and 5 mg/ml stored in a PVC container after storage for one month at 2-8°C.
EJHP Science - 2007 - ; 13, 1: 14-16.
- Kaiser J.D, Vigneron J, Zenier H, May I, Demoré B.
Chemical and physical stability of **dexrazoxane**, diluted with Ringer's lactate solution, in polyvinyl and polyethylene containers.
EJHP Science 2007 ; 13, 3: 55-59.
- Serrurier C, Chenot ED, Vigneron J, May I, Demoré B.
Assessment of injectable drug's administration in two intensive care units and determination of potential **physico-chemical incompatibilities**.
EJHP Science 2006 ; 12,5: 96-99.
- Demoré B, Vigneron J, Perrin A, Hoffman MA, Hoffman M.
Leaching of diethyl hexyl phtalate from polyvinyl chloride bags into intravenous **etoposide** solution.
J Clin Pharm Ther 2002 ; 27: 139-142.
- Henn S, Monfort P, Vigneron JH, Hoffman MA, Hoffman M.
Stability of **methacholine chloride** in isotonic sodium chloride using a capillary electrophoresis assay.
J Clin Pharm Ther 1999 ; 24: 365-368.
- Drouard, Vigneron J, May I.
Traitement par **étoposide** oral : présentation adaptée à une meilleure observance pédiatrique hospitalière.
J Pharm Clin - 1999 - ; 18, 3: 251-257.
- Barbé F, Legagneur H, Boisseau D, Badonnel Y, Boutroy M.J.
Stabilité des préparations extemporanées de **doxapram** (Doprams®) à usage néonatal.
Archives de Pédiatrie - 1998 - ; 5, 10: 1170-1171.
- Georget S, Vigneron J, Blaise N, Perrin A, Hoffman MA, Hoffman M.
Stability of refrigerated and frozen solutions of **tropisetron** in either polyvinylchloride or polyolefin infusion bags.
J Clin Pharm Ther - 1997 - ; 22: 257-260.
- Daouphars M, Vigneron J, Perrin A, Hoffman MA, Hoffman M.
Stability of **cladribine** in either polyethylene containers or polyvinylchloride bags.
Eur Hosp Pharm - 1997 - 3,4: 154-6
- Barberi-Hayob M, Merlin JL, Vigneron M, Conroy T.
Addition of heparin in **5-fluorouracil** solution for portal vein infusion has no influence on its

stability under clinically relevant conditions.

Anticancer Drugs - 1995 - ; 6: 163-164.

Demoré B, Raffy F, Commun N, Vigneron J, Hoffman MA, Hoffman M.

Etude de la stabilité de deux **benzamides** antiémétiques en poches PVC de chlorure de sodium 0.9% et de glucose 5% sur une période de 5 mois.

J Pharm Clin - 1995 - ; 14: 178-179.

Stability of refrigerated and frozen solutions of **ondansetron hydrochloride**.

Blaise N, Vigneron J, Perrin A, Noirez V, Hoffman MA, Hoffman M.

EJHP 1994 ; 4: 12-13.

Phaypradith S, Vigneron J, Perrin A, Durney-Archeray

Stability of **ganciclovir sodium** (Cymevan*) after dilution in PVC infusions and polypropylene syringes.

Autres publications concernant stabilités et compatibilités

Vigneron J, Gindre I, Daouphars M, Demoré B, Monfort P, Georget S, Chenot E, Noirez V, Commun N, Laurelli F, Perrin A, Lux M, Hoffman MA, Hoffman M.

Stabilis 2 : an international CDRom database on stability and compatibility of injectable drugs

EJHP, 2004, 2: 59-60

Vigneron J.

Compatibilities of mixtures of medicines administered by the parenteral route : how can we tackle the problem ?

EJHP-P 2005 ; 52-53.

Céline Serrurier, PharmD, Emile-Dorian Chenot, PharmD, Jean Vigneron, PharmD, PhD, Isabelle May, PharmD, Béatrice Demoré, PharmD

Assessment of injectable drugs' administration in two intensive care units and determination of potential **physico-chemical incompatibilities**

EJHP Science 2006; 12, 5: 96-99.

Vigneron J.

Stability studies of drugs used in oncology: The role of the hospital pharmacist.

EJHP Practice 2006; 12, 6: 75-76.

Vigneron J.

The Infostab/Stabilis website: a tool for oncology pharmacists

EJOP 2009; 3, 2: 12.

C. Bardin, A. Astier, A. Vulto, G. Sewell, J. Vigneron, R. Trittler, M. Daouphars, M. Paul, M. Trojniak, F. Pinguet.

Guidelines for the practical stability studies of anticancer drugs: A European consensus conference

Ann Pharm Fr 2011; 69: 221-231.

Vigneron J, Astier A, Trittler R, Hecq JD, Daouphars M, Larsson I, Pourroy B, Pinguet F.
SFPO and ESOP recommendations for the **practical stability of anticancer drugs**: An update.
Ann Pharm Fr 2013

Vigneron J.
Stability Studies: A Scientific Mission of the Hospital Pharmacist
Pharm. Technol. Hosp. Pharm. 2017; 2(4): 143–144

D'Huart, Elise / Lider, Pauline / Vigneron, Jean / Demoré, Béatrice
Evolution of the Stabilis® Database: Creation of a Level of Evidence for Stability Studies
Pharm. Technol. Hosp. Pharm. 2018

D'HUART Elise, Vigneron Jean, Morice Sophie, LIDER Pauline, Demoré Béatrice.
Pemetrexed stability: additional informations on microparticles
Eur J Hosp Pharm 2018

D'HUART Elise, Vigneron Jean, Gindre Isabelle, Lider Pauline, PharmD¹, Demoré Béatrice,
Ph.D.
First International database of research teams in stability and compatibility of medications :
An additional function in the Stabilis® database.
Ann Pharm Fr 2018, 76: 436-443.

Shinya Suzuki, Nobuo Mochizuki, Aya Ikeuchi Iwamoto, Mikinori Yoshida, Akio Murakami,
Kiwako Ikegawa, Masakazu Yamaguchi, Jean Vigneron.
Comparative evaluation of a **website for drug incompatibility**: Stabilis, Trissel's Handbook
and the currently available
tools in Japan
EJOP 2018

Vigneron J, D'Huart E, Demoré B.
Stability studies in oncology: A marketing tool for pharmaceutical companies, a **scientific
mission** for hospital pharmacists
EJOP 2019 Online first

Posters concernant stabilité et compatibilités

Poillet S, Vigneron J, Hoffman MA, Hoffman M
Stability of a **solution for nebulization**
FIP Meeting Vancouver Sept 1997

Gindre I, Demore B, Vigneron J, Hoffman MA, Hoffman M.
Stability and compatibility of **teniposide** in plastic containers : influence of polyvinyl chloride
and polyethylene
ASHP Annual Meeting 1997

Chenot, Vigneron J, Gindre I , Daouphars M, Demore B, Monfort P, Georget S, Noirez V,
Commun N, Lux M, Perrin A, Laurelli F, Hoffman MA, Hoffman M.
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Congrès ESCP Paris Avril 2004

Ducki C, Vigneron J, Hoffman MA
Stability of **diazepam** (Valium®) in non PVC containers
Congrès ESCP Paris avril 2004

Rondelot G, Serrurier C, Zenier H, Vigneron J, May I.
Stability of **pemetrexed** in glass vial and 5mg/ml diluted in 0.9% sodium chloride and stored in PVC containers.
EAHP Congress Geneva march 2006

Stability of **bendamustine** reconstituted with water for injection at 2.5 mg/mL and diluted with 0.9% or 1.5% sodium chloride at 0.25 and 0.60 mg/mL.
Vigneron J, Sobalak N, May I, Demoré B.
European Conference on Oncology Pharmacy, Septembre 2012 , Budapest

Daul A, Vigneron J, Zenier H, May I, Demoré B.
Stability of frozen **ceftazidime** in polypropylene syringes for intravitreal injection
EAHP Congress, Paris mars 2013

Giovanelli M, Vigneron J, May I, Nicolas A
Etude de la stabilité d'une solution de **bortézomib** à 2,5 mg/mL par chromatographie liquide à haute performance couplée à un détecteur à barrettes de diodes et à un détecteur évaporatif à diffusion de lumière
Congrès SFPO 17-18 octobre 2013 Mandelieu

P. Lider, J. Vigneron, I. Gindre, I. May, B. Demoré
Evolution de la base de données **Stabilis®** : **Création d'un système de cotation** des publications relatives aux études de stabilité de médicaments anticancéreux injectables
Congrès SFPO 17-18 octobre 2013 - Mandelieu

Lider P, Vigneron J, Gindre I, May I, Demoré B.
New function in the **Stabilis database: level of evidence** for stability studies of anticancer drugs.
European Conference on Oncology Pharmacy, Juin 2014 , Cracovie

Loboda C, Lider P, Vigneron J.
Incompatibilité du **busulfan** avec des seringues de 1 ml Luer-Lock : à propos d'un cas
Congrès SFPO oct 2015, Nantes

Etude de stabilité physicochimique de solutions **d'étoposide** diluées en poches polyoléfine à des concentrations comprises entre 0,38 et 1,75 mg/mL.
E.D'Huart, J.Vigneron, P.Lider, B.Demoré.
Congrès Hopipharm 2018

E. D'Huart, J. Vigneron, I. Gindre, P. Lider, B. Demoré
STABILIS®: NEW FUNCTION « RESEARCH TEAM »: A BRIDGE BETWEEN RESEARCHERS AND USERS
Congrès ECOP 4, Nantes octobre 2018

E. D'Huart, J. Vigneron, P. Lider, B. Demoré
Stability study of **etoposide**
Congrès ECOP 4, Nantes octobre 2018

E. D'Huart, J. Vigneron, P. Lider, B. Demoré
Pemetrexed stability : additional information on microparticles
Congrès ECOP 4, Nantes octobre 2018

D'HUART Elise, VIGNERON Jean, RANCHON Florence, VANTARD Nicolas, RIOUFOL Catherine, DEMORE Béatrice,
Stability of **sodium thiosulfate**, use as a nephroprotective drug in hyperthermic intrathoracic chemotherapy by cisplatin.
Congrès ECOP 4, Nantes octobre 2018

E. D'Huart¹, J. Vigneron¹, A. Charmillon², B. Demoré¹
Physicochemical stability of **Vancomycin Hydrochloride** in Polypropylene Syringes at High Concentrations for Intensive Care Units
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E. D'Huart, J. Vigneron, B. Demoré.
Physicochemical stability of **Norepinephrine bitartrate** in Polypropylene Syringes at High Concentrations for Intensive Care Units
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D'HUART Elise, VIGNERON Jean, DEMORE Béatrice.
Physical Compatibility of Intravenous Anti Infective Drugs with Medications Commonly Used in Intensive Care Units.
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Physicochemical stability of **Cefotaxime sodium** in Polypropylene Syringes at High Concentrations for Intensive Care Units.
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